WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)									
(51) International Patent Classification 6:		(11) International Publication Number: WO 99/04265							
G01N 33/574	A2	(43) International Publication Date: 28 January 1999 (28.01.99)							
(21) International Application Number: PCT/US (22) International Filing Date: 15 July 1998 (O'HARE, Michael [GB/GB]; 91 Riding House Street, London WIR SPT (CR), ORATA Vision III/III Chileses Vision								
(30) Priority Data: 08/896,164 60/061,599 60/061,765 08/948,705 09/102,322 17 July 1997 (17.07.97) 10 October 1997 (10.10.97) 10 October 1997 (10.10.97) 11 October 1997 (11.10.97) 22 June 1998 (22.06.98)) ! !	(DE). SAHIN, Ugur [TR/DE]; Innere Medizin 1, D-66421 Homburg/Saar (DE). (74) Agent: VAN AMSTERDAM, John, R.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).							
 (71) Applicant (for all designated States except US): I INSTITUTE FOR CANCER RESEARCH [CH/Third Avenue, New York, NY 10158 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): OLD, Lloyd, J. 	US]; 6	GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian							
1345 Avenue of the Americas, New York, NY 10 SCANLAN, Matthew, J. [US/US]; 1275 York Ave York, NY 10021 (US). STOCKERT, Elisabeth 1275 York Avenue, New York, NY 10021 (US). Ali [US/US]; 1275 York Avenue, New York, N (US). CHEN, Yao-Tseng [-/US]; The New York tal-Cornell Medical Center, Dept. of Pathology, 68th Street, New York, NY 10021 (US). GO	nue, No [US/U). GUF IY 100 rk Hos 525 E	patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published							

upon receipt of that report.

(54) Title: CANCER ASSOCIATED NUCLEIC ACIDS AND POLYPEPTIDES

HA 10-15	KEKSPPPPKYYHPLIGILENGCOSDYEEEEEEXTPPPQPRTAQPQXREEQTKKEREEDKLTDHNKLACLICRRQ	
LUCA15 bxsb237e	PRIVRNUDEHPLKRGLYAAYSGISDIESELVERLESEEEKLADWXKHACLLCRRQ DIJVKLASDDIPPPRGLYAAYSGISDISES	
•••		
UV-LO-CL LUCALS	Titiqqlsdlikqhiethikktkqseqelaylerrere.ckfkcrghorreklqsfdsperkriktsretdsdrki Vrikqqlsdlikqhhityrshlseqelexlelrire.hkyrqrraerrektgipepperkrkqfdagtvhybq	
DXS8237F	***************************************	
11Y-141-17	t inkolivuoatgerkatkokgyvipokannenenakupnygangktekrosketyrdavryvaparykbld	1123
LUCALS	Hightchkhlqahowregsglgiou:qcitapteaqvrlkgaglgakgbayglsgadbykdavrkamparptehe	815
DXS8237E	sinicsrhiqamghkegsgi.grkkqgtytpibaqtryrgyglgakgbsygytbtbbyketi.hktmytrphbaq	389

(57) Abstract

Various molecules associated with cancer are disclosed. The invention also discloses diagnostic and therapeutic methods based upon these molecules.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
ΑU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GН	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	İsrael	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugosłavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	zw	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
СМ	Cameroon		Republic of Korea	PL	Poland		
CN	. China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
cz	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden .		
EE	Estonia	LR	Liberia	SG	Singapore		

CANCER ASSOCIATED NUCLEIC ACIDS AND POLYPEPTIDES

Field of the Invention

The invention relates to nucleic acids and encoded polypeptides which are cancer
associated antigens expressed in patients afflicted with breast cancer. The invention also relates
to agents which bind the nucleic acids or polypeptides. The nucleic acid molecules,
polypeptides coded for by such molecules and peptides derived therefrom, as well as related
antibodies and cytolytic T lymphocytes, are useful, *inter alia*, in diagnostic and therapeutic
contexts.

10

15

20

25

30

Background of the Invention

The mechanism by which T cells recognize foreign materials has been implicated in cancer. A number of cytolytic T lymphocyte (CTL) clones directed against autologous melanoma antigens, testicular antigens, and melanocyte differentiation antigens have been described. In many instances, the antigens recognized by these clones have been directly characterized.

The use of autologous CTLs for identifying tumor antigens requires that the targéticelles of autologous CTLspaces of autologous CTLspaces of clones which recognize the antigen-expressing cells can be isolated and propagated. While this approach has worked well for melanoma antigens, other tumor types, such as epithelial cancers including breast and colon cancer, have proved refractory to the approach.

More recently another approach to the problem has been described by Sahin et al. (*Proc. Natl. Acad. Sci. USA* 92:11810-11813, 1995). According to this approach, autologous antisera are used to identify immunogenic protein antigens expressed in cancer cells by screening expression libraries constructed from tumor cell cDNA. Antigen-encoding clones so identified have been found to have elicited an high-titer humoral immune response in the patients from which the antisera were obtained. Such a high-titer IgG response implies helper T cell recognition of the detected antigen. These tumor antigens can then be screened for the presence of MHC/HLA class I and class II motifs and reactivity with CTLs

The invention is elaborated upon in the disclosure which follows.

Summary of the Invention

Autologous antibody screening has now been applied to cancer using antisera from cancer patients. Numerous cancer associated antigens have been identified. The invention provides, *inter alia*, isolated nucleic acid molecules, expression vectors containing those molecules and host cells transfected with those molecules. The invention also provides isolated proteins and peptides, antibodies to those proteins and peptides and CTLs which recognize the proteins and peptides. Fragments including functional fragments and variants of the foregoing also are provided. Kits containing the foregoing molecules additionally are provided. The foregoing can be used in the diagnosis, monitoring, research, or treatment of conditions characterized by the expression of one or more cancer associated antigens.

10

30

Prior to the present invention, only a handful of cancer associated genes had been identified in the past 20 years. The invention involves the surprising discovery of many genes, some previously known and many previously unknown, which are expressed in individuals who have cancer. These individuals all have serum antibodies against the proteins (or fragments thereof) encoded by these genes. Thus, abnormally expressed genes are recognized by the host's immune system and therefore can form a basis for diagnosis, monitoring and therapy.

The invention involves the use of a single material, a plurality of different materials and even large panels and combinations of materials. For example, a single gene, a single protein encoded by a gene, a single functional fragment thereof, a single antibody thereto, etc. can be used in methods and products of the invention. Likewise, pairs, groups and even panels of these materials can be used for diagnosis, monitoring and therapy. The pairs, groups or panels can involve 2, 3, 4, 5... to as many as 25, 50, 100 or more genes, gene products, fragments thereof or agents that recognize such materials. A plurality of such materials are not only useful in monitoring, typing, characterizing and diagnosing cells abnormally expressing such genes, but a plurality of such materials can be used therapeutically. An example of the use of a plurality of such materials for the prevention, delay of onset, amelioration, etc. of cancer cells, which express or will express such genes prophylactically or acutely. Any and all combinations of the genes, gene products, and materials which recognize the genes and gene products can be tested and identified for use according to the invention. It would be far too lengthy to recite all such combinations; those skilled in the art, particularly in view of the teaching contained herein, will readily be able to determine which combinations are most appropriate for which circumstances.

As will be clear from the following discussion, the invention has in vivo and in vitro uses,

including for therapeutic, diagnostic, monitoring and research purposes. One aspect of the invention is the ability to fingerprint a cell expressing a number of the genes identified according to the invention. Such fingerprints will be characteristic, for example, of the stage of the cancer, the type of the cancer, or even the effect in animal models of a therapy on a cancer. Cells also can be screened to determine whether such cells abnormally express the genes

identified according to the invention.

10

The invention, in one aspect, is a method of diagnosing a disorder characterized by expression of a cancer associated antigen precursor coded for by a nucleic acid molecule. The method involves the steps of contacting a biological sample isolated from a subject with an agent that specifically binds to the nucleic acid molecule, an expression product thereof, or a fragment of an expression product thereof complexed with an MHC, preferably an HLA, molecule, wherein the nucleic acid molecule is a NA Group 1 nucleic acid molecule, and determining the interaction between the agent and the nucleic acid molecule, the expression product or fragment of the expression product as a determination of the disorder.

In one embodiment the agent is selected from the group consisting of (a) a nucleic acid molecule comprising NA Group 1 nucleic acid molecules or a fragment thereof; (b) a nucleic acid molecule comprising NA Group 3 nucleic acid molecules or a fragment thereof; (c) named and include acid molecule comprising NA Group 17 nucleic acid molecules or a fragment thereof, (d) an antibody that binds to an expression product, or a fragment thereof, of NA group 1 nucleic acids, (e) an antibody that binds to an expression product, or a fragment thereof, of NA group 3 nucleic acids, (f) an antibody that binds to an expression product, or a fragment thereof, of NA group 17 nucleic acids, (g) and agent that binds to a complex of an MHC, preferably HLA, molecule and a fragment of an expression product of a NA Group 1 nucleic acid, (h) an agent that binds to a complex of an MHC, preferably HLA, molecule and a fragment of an expression product of a NA group 3 nucleic acid, and (I) an agent that binds to a complex of an MHC, preferably HLA, molecule and a fragment of an expression product of a NA group 1 nucleic acid, and (I) an agent that binds to a complex of an MHC, preferably HLA, molecule and a fragment of an expression product of a NA Group 17 nucleic acid.

The disorder may be characterized by expression of a plurality of cancer associated antigen precursors and wherein the agent is a plurality of agents, each of which is specific for a different human cancer associated antigen precursor, and wherein said plurality of agents is at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, at least 8, at least 9 or at least 10 such agents.

In each of the above embodiments the agent may be specific for a human cancer associated antigen precursor that is a breast, a gastric, a lung, a prostate, a renal or a colon cancer associated antigen precursor.

5

10

20

25

30

In another aspect the invention is a method for determining regression, progression or onset of a condition characterized by expression of abnormal levels of a protein encoded by a nucleic acid molecule that is a NA Group 1 molecule. The method involves the steps of monitoring a sample, from a subject who has or is suspected of having the condition, for a parameter selected from the group consisting of (i) the protein, (ii) a peptide derived from the protein, (iii) an antibody which selectively binds the protein or peptide, and (iv) cytolytic T cells specific for a complex of the peptide derived from the protein and an MHC molecule, as a determination of regression, progression or onset of said condition. In one embodiment the sample is a body fluid, a body effusion or a tissue.

In another embodiment the step of monitoring comprises contacting the sample with a detectable agent selected from the group consisting of (a) an antibody which selectively binds

15 the protein of (i), or the peptide of (ii), (b) a protein or peptide which binds the antibody of (iii) and (c) a cell which presents the complex of the peptide and MHC molecule of (iv) in Injantific the antibody, the protein, the peptide or the cell is labeled with a complex of the peptide.

15 peptide:

16 peptide or an enzyme The sample in a preferred embodiment is assayed for the peptide.

According to another embodiment the nucleic acid molecule is one of the following: a NA Group 3 molecule, a NA Group 11 molecule, a NA Group 12 molecule, a NA Group 13 molecule, a NA Group 14 molecule, a NA Group 15 molecule, or a NA Group 16 molecule. In yet another embodiment the protein is a plurality of proteins, the parameter is a plurality of parameters, each of the plurality of parameters being specific for a different of the plurality of proteins.

The invention in another aspect is a pharmaceutical preparation for a human subject. The pharmaceutical preparation includes an agent which when administered to the subject enriches selectively the presence of complexes of an HLA molecule and a human cancer associated antigen, and a pharmaceutically acceptable carrier, wherein the human cancer associated antigen is a fragment of a human cancer associated antigen precursor encoded by a nucleic acid molecule which comprises a NA Group 1 molecule. In one embodiment the nucleic acid molecule is a NA Group 3 nucleic acid molecule.

The agent in one embodiment comprises a plurality of agents, each of which enriches selectively in the subject complexes of an HLA molecule and a different human cancer associated antigen. Preferably the plurality is at least two, at least three, at least four or at least 5 different such agents.

5

10

20

25

30

In another embodiment the agent is selected from the group consisting of (1) an isolated polypeptide comprising the human cancer associated antigen, or a functional variant thereof, (2) an isolated nucleic acid operably linked to a promoter for expressing the isolated polypeptide, or functional variant thereof, (3) a host cell expressing the isolated polypeptide, or functional variant thereof, and (4) isolated complexes of the polypeptide, or functional variant thereof, and an HLA molecule.

The agent may be a cell expressing an isolated polypeptide. In one embodiment the agent is a cell expressing an isolated polypeptide comprising the human cancer associated antigen or a functional variant thereof, and wherein the cell is nonproliferative. In another embodiment the agent is a cell expressing an isolated polypeptide comprising the human cancer associated antigen or a functional variant thereof, and wherein the cell expresses an HLA molecule that binds the polypeptide. The cell can express one or both of the polypeptide and HLA molecule recombinantly. In another preferred embodiment the cell is nonproliferative In yet another embodiment the agent is at least two; at least three, at least four or at least five different polypeptides, each representing a different human cancer associated antigen or a functional variant thereof.

> The agent in one embodiment is a PP Group 2 polypeptide. In other embodiments the agent is a PP Group 3 polypeptide or a PP Group 4 polypeptide.

In an embodiment each of the pharmaceutical preparations described herein also includes an adjuvant.

According to another aspect the invention, a composition is provided of an isolated agent that binds selectively a PP Group 1 polypeptide. In separate embodiments the agent binds selectively to a polypeptide selected from the following: a PP Group 3 polypeptide, a PP Group 11 polypeptide, a PP Group 12 polypeptide, a PP Group 13 polypeptide, a PP Group 14 polypeptide, a PP Group 15 polypeptide, and a PP Group 16 polypeptide. In other embodiments, the agent is a plurality of different agents that bind selectively at least two, at least three, at least four, or at least five different such polypeptides. In each of the above described embodiments the agent may be an antibody.

In another aspect the invention is a composition of matter .composed of a conjugate of the agent of the above-described compositions of the invention and a therapeutic or diagnostic agent. Preferably the conjugate is of the agent and a therapeutic or diagnostic that is an antineoplastic.

. 5

20

25

30

The invention in another aspect is a pharmaceutical composition of an isolated nucleic acid molecule selected from the group consisting of: (1) NA Group 1 molecules, and (2) NA Group 2 molecules, and a pharmaceutically acceptable carrier. In one embodiment the isolated nucleic acid molecule comprises a NA Group 3 or NA Group 4 molecule. In another embodiment the isolated nucleic acid molecule comprises at least two isolated nucleic acid molecules coding for two different polypeptides, each polypeptide comprising a different cancer associated antigen.

Preferably the pharmaceutical composition also includes an expression vector with a promoter operably linked to the isolated nucleic acid molecule. In another embodiment the pharmaceutical composition also includes a host cell recombinantly expressing the isolated nucleic acid molecule.

The pharmaceutical composition includes an isolated polypeptide comprising a PP Group 1 for a PP Group 2 polypeptide and a pharmaceutically acceptable carrier. In one embodiment the isolated polypeptide comprises a PP Group 3 or a PP Group 4 polypeptide.

In another embodiment the isolated polypeptide comprises at least two different polypeptides, each comprising a different cancer associated antigen. In separate embodiments the isolated polypeptides are selected from the following: PP Group 11 polypeptides or HLA binding fragments thereof, PP Group 12 polypeptides or HLA binding fragments thereof, PP Group 13 polypeptides or HLA binding fragments thereof, PP Group 14 polypeptides or HLA binding fragments thereof, or PP Group 16 polypeptides or HLA binding fragments thereof.

In an embodiment each of the pharmaceutical compositions described herein also includes an adjuvant.

Another aspect the invention is an isolated nucleic acid molecule comprising a NA Group 3 molecule. Another aspect the invention is an isolated nucleic acid molecule comprising a NA Group 4 molecule. In separate embodiments the isolated nucleic acid molecules are selected from the following: a Group 11 molecule or a functional fragment

thereof, a Group 12 molecule or a functional fragment thereof, a Group 13 molecule or a functional fragment thereof, a Group 14 molecule or a functional fragment thereof, a Group 15 molecule or a functional fragment thereof, or a Group 16 molecule or a functional fragment thereof.

The invention in another aspect is an isolated nucleic acid molecule selected from the group consisting of (a) a fragment of a nucleic acid selected from the group of nucleic acid molecules consisting of SEQ ID numbered below and comprising all nucleic acid sequences among SEQ ID NOs 1-816, of sufficient length to represent a sequence unique within the human genome, and identifying a nucleic acid encoding a human cancer associated antigen precursor, (b) complements of (a), provided that the fragment includes a sequence of contiguous nucleotides which is not identical to any sequence selected from the sequence group consisting of (1) sequences having the GenBank accession numbers of the sequence Group 1, (2) complements of (1), and (3) fragments of (1) and (2).

In one embodiment the sequence of contiguous nucleotides is selected from the group consisting of: (1) at least two contiguous nucleotides nonidentical to the sequence Group 1, (2) at least three contiguous nucleotides nonidentical to the sequence Group 1, (3) at least four contiguous nucleotides nonidentical to the sequence Group 1; (4) at least five contiguous nucleotides nonidentical to the sequence Group 1, (5) at least six contiguous nucleotides nonidentical to the sequence Group 1, or (6) at least seven contiguous nucleotides nonidentical to the sequence Group 1.

> In another embodiment the fragment has a size selected from the group consisting of at least: 8 nucleotides, 10 nucleotides, 12 nucleotides, 14 nucleotides, 16 nucleotides, 18 nucleotides, 20, nucleotides, 22 nucleotides, 24 nucleotides, 26 nucleotides, 28 nucleotides, 30 nucleotides, 50 nucleotides, 75 nucleotides, 100 nucleotides, 200 nucleotides, 1000 nucleotides and every integer length therebetween.

> In yet another embodiment the molecule encodes a polypeptide which, or a fragment of which, binds a human HLA receptor or a human antibody.

Another aspect of the invention is an expression vector comprising an isolated nucleic acid molecule of the invention described above operably linked to a promoter.

According to one aspect the invention is an expression vector comprising a nucleic acid operably linked to a promoter, wherein the nucleic acid is a NA Group 2 molecule. In another aspect the invention is an expression vector comprising a NA Group 1 or Group 2 molecule

30

5

10

20

25

and a nucleic acid encoding an MHC, preferably HLA, molecule.

5

20

25

30

In yet another aspect the invention is a host cell transformed or transfected with an expression vector of the invention described above.

In another aspect the invention is a host cell transformed or transfected with an expression vector comprising an isolated nucleic acid molecule of the invention described above operably linked to a promoter, or an expression vector comprising a nucleic acid operably linked to a promoter, wherein the nucleic acid is a NA Group 1 or 2 molecule and further comprising a nucleic acid encoding HLA.

According to another aspect of the invention an isolated polypeptide encoded by the isolated nucleic acid molecules the invention, described above, is provided. These include PP Group 1-17 polypeptides. The invention also includes a fragment of the polypeptide which is immunogenic. In one embodiment the fragment, or a portion of the fragment, binds HLA or a human antibody.

The invention includes in another aspect an isolated fragment of a human cancer associated antigen precursor which, or portion of which, binds HLA or a human antibody, wherein the precursor is encoded by a nucleic acid molecule that is a NA Group 1 molecule. In one embodiment the fragment is part of a complex with HLA. In another embodiment the invention fragment is between 8 and 12 amino acids in length. In another embodiment the invention includes an isolated polypeptide comprising a fragment of the polypeptide of sufficient length to represent a sequence unique within the human genome and identifying a polypeptide that is a human cancer associated antigen precursor.

According to another aspect of the invention a kit for detecting the presence of the expression of a cancer associated antigen precursor is provided. The kit includes a pair of isolated nucleic acid molecules each of which consists essentially of a molecule selected from the group consisting of (a) a 12-32 nucleotide contiguous segment of the nucleotide sequence of any of the NA Group 1 molecules and (b) complements of ("a"), wherein the contiguous segments are nonoverlapping. In one embodiment the pair of isolated nucleic acid molecules is constructed and arranged to selectively amplify an isolated nucleic acid molecule that is a NA Group 3 molecule. Preferably, the pair amplifies a human NA Group 3 molecule.

According to another aspect of the invention a method for treating a subject with a disorder characterized by expression of a human cancer associated antigen precursor is provided. The method includes the step of administering to the subject an amount of an agent,

which enriches selectively in the subject the presence of complexes of an HLA molecule and a human cancer associated antigen, effective to ameliorate the disorder, wherein the human cancer associated antigen is a fragment of a human cancer associated antigen precursor encoded by a nucleic acid molecule selected from the group consisting of (a) a nucleic acid molecule comprising NA group 1 nucleic acid molecules, (b) a nucleic acid molecule comprising NA group 3 nucleic acid molecules, (c) a nucleic acid molecule comprising NA group 17 nucleic acid molecules.

In one embodiment the disorder is characterized by expression of a plurality of human cancer associated antigen precursors and wherein the agent is a plurality of agents, each of which enriches selectively in the subject the presence of complexes of an HLA molecule and a different human cancer associated antigen. Preferably the plurality is at least 2, at least 3, at least 4, or at least 5 such agents.

10

20

30

In another embodiment the agent is an isolated polypeptide selected from the group consisting of PP Group 1, PP Group 2, PP Group 3, PP Group 4, PP Group 5, PP Group 6,

PP Group 7, PP Group 8, PP Group 9, PP Group 10, PP Group 11, PP Group 12, PP Group 13 PP Group 14 PP Group 15, PP Group 16 and PP Group 17 polypeptides In yet another embodiment the disorder is cancer. TO THE RESIDENCE OF THE PARTY O

According to another aspect the invention is a method for treating a subject having a subje condition characterized by expression of a cancer associated antigen precursor in cells of the vertical data subject. The method includes the steps of (I) removing an immunoreactive cell containing sample from the subject, (ii) contacting the immunoreactive cell containing sample to the host cell under conditions favoring production of cytolytic T cells against a human cancer associated antigen which is a fragment of the precursor, (iii) introducing the cytolytic T cells to the subject in an amount effective to lyse cells which express the human cancer associated antigen, wherein the host cell is transformed or transfected with an expression vector comprising an isolated nucleic acid molecule operably linked to a promoter, the isolated nucleic acid molecule being selected from the group of nucleic acid molecules consisting of NA Group 1, NA Group 2, NA Group 3, NA Group 4, NA Group 5, NA Group 6, NA Group 7, NA Group 8, NA Group 9, NA Group 10, NA Group 11, NA Group 12, NA Group 13, NA Group 14, NA Group 15, NA Group 16, and NA Group 17.

In one embodiment the host cell recombinantly expresses an HLA molecule which binds the human cancer associated antigen. In another embodiment the host cell endogenously expresses an HLA molecule which binds the human cancer associated antigen.

5

10

25

The invention includes in another aspect a method for treating a subject having a condition characterized by expression of a cancer associated antigen precursor in cells of the subject. The method includes the steps of (I) identifying a nucleic acid molecule expressed by the cells associated with said condition, wherein said nucleic acid molecule is a NA Group 1 molecule (ii) transfecting a host cell with a nucleic acid selected from the group consisting of (a) the nucleic acid molecule identified, (b) a fragment of the nucleic acid identified which includes a segment coding for a cancer associated antigen, (c) deletions, substitutions or additions to (a) or (b), and (d) degenerates of (a), (b), or (c); (iii) culturing said transfected host cells to express the transfected nucleic acid molecule, and; (iv) introducing an amount of said host cells or an extract thereof to the subject effective to increase an immune response against the cells of the subject associated with the condition. Preferably, the antigen is a human antigen and the subject is a human.

In one embodiment the method also includes the step of (a) identifying an MHC

15 molecule which presents a portion of an expression product of the nucleic acid molecule,

wherein the host cell expresses the same MHC molecule as identified in (a) and wherein the host cell presents an MHC binding portion of the expression product of the nucleic acid!

molecule:

molecule:

In another embodiment the method also includes the step of treating the host cells to the step of treating the step of treating the host cells to the step of treating the step of treatin

In yet another embodiment the immune response comprises a B-cell response or a T cell response. Preferably the response is a T-cell response which comprises generation of cytolytic T-cells specific for the host cells presenting the portion of the expression product of the nucleic acid molecule or cells of the subject expressing the human cancer associated antigen.

In another embodiment the nucleic acid molecule is a NA Group 3 molecule.

Another aspect of the invention is a method for treating or diagnosing or monitoring a subject having a condition characterized by expression of an abnormal amount of a protein encoded by a nucleic acid molecule that is a NA Group 1 molecule. The method includes the step of administering to the subject an antibody which specifically binds to the protein or a peptide derived therefrom, the antibody being coupled to a therapeutically useful agent, in an amount effective to treat the condition.

In one embodiment the antibody is a monoclonal antibody. Preferably the monoclonal antibody is a chimeric antibody or a humanized antibody.

In another aspect the invention is a method for treating a condition characterized by expression in a subject of abnormal amounts of a protein encoded by a nucleic acid molecule that is a NA Group 1 nucleic acid molecule. The method involves the step of administering to a subject at least one of the pharmaceutical compositions of the invention described above in an amount effective to prevent, delay the onset of, or inhibit the condition in the subject. In one embodiment the condition is cancer. In another embodiment the method includes the step of first identifying that the subject expresses in a tissue abnormal amounts of the protein. The invention in another aspect is a method for treating a subject having a condition characterized by expression of abnormal amounts of a protein encoded by a nucleic acid molecule that is a NA Group 1 nucleic acid molecule. The method includes the steps of (I) identifying cells from the subject which express abnormal amounts of the protein; (ii) isolating a sample of the cells; (iii) cultivating the cells, and (iv) introducing the cells to the subject in an amount effective to provoke an immune response against the cells.

10

20

25

30

In one embodiment the cells express a protein selected from the group consisting of a PP Group 11 protein, a PP Group 12 protein, a PP Group 13 protein, PP Group 14 protein, a PP Group 15 protein and a PP Group 16 protein. In another embodiment the method includes the step of rendering the cells non-proliferative, prior to introducing them to the subject.

In another aspect the invention is a method for treating a pathological cell condition characterized by abnormal expression of a protein encoded by a nucleic acid molecule that is a NA Group 1 nucleic acid molecule. The method includes the step of administering to a subject in need thereof an effective amount of an agent which inhibits the expression or activity of the protein.

In one embodiment the agent is an inhibiting antibody which selectively binds to the protein and wherein the antibody is a monoclonal antibody, a chimeric antibody or a humanized antibody. In another embodiment the agent is an antisense nucleic acid molecule which selectively binds to the nucleic acid molecule which encodes the protein. In yet another important embodiment the nucleic acid molecule is a NA Group 3 nucleic acid molecule.

The invention includes in another aspect a composition of matter useful in stimulating an immune response to a plurality of a protein encoded by nucleic acid molecules that are NA Group 1 molecules. The composition is a plurality of peptides derived from the amino acid

sequences of the proteins, wherein the peptides bind to one or more MHC molecules presented on the surface of the cells which express an abnormal amount of the protein.

In one embodiment at least a portion of the plurality of peptides bind to MHC molecules and elicit a cytolytic response thereto. In another embodiment the composition of matter includes an adjuvant. In another embodiment the adjuvant is a saponin, GM-CSF, or an interleukin.

According to another aspect the invention is an isolated antibody which selectively binds to a complex of: (I) a peptide derived from a protein encoded by a nucleic acid molecule that is a NA Group 1 molecule and (ii) and an MHC molecule to which binds the peptide to form the complex, wherein the isolated antibody does not bind to (I) or (ii) alone.

In one embodiment the antibody is a monoclonal antibody, a chimeric antibody or a humanized antibody.

10

20

25

30

AND FOR THE REPORT OF THE PARTY
The invention also involves the use of the genes, gene products, fragments thereof, agents which bind thereto, and so on in the preparation of medicaments. A particular medicament is for treating cancer and a more particular medicament is for treating breast cancer, lung cancer, renal cancer, colon cancer, prostate cancer or gastric cancer.

Detailed Description of the Invention

不然可以被我的最后就已经的证明的证明,他还是有自己的 医二十

In the above summary and in the ensuing description, lists of sequences are provided. The lists are meant to embrace each single sequence separately, two or more sequences together where they form a part of the same gene, any combination of two or more sequences which relate to different genes, including and up to the total number on the list, as if each and every combination were separately and specifically enumerated. Likewise, when mentioning fragment size, it is intended that a range embrace the smallest fragment mentioned to the full-length of the sequence (-1 so that it is a fragment), each and every fragment length intended as if specifically enumerated. Thus, if a fragment could be between 10 and 15 in length, it is explicitly meant to mean 10, 11, 12, 13, 14, or 15 in length.

The summary and the claims mention antigen precursors and antigens. As used in the summary and in the claims, a precursor is substantially the full-length protein encoded by the coding region of the isolated DNA and the antigen is a peptide which complexes with MHC, preferably HLA, and which participates in the immune response as part of that complex. Such antigens are typically 9 amino acids long, although this may vary slightly.

As used herein, a subject is a human, non-human primate, cow, horse, pig, sheep, goat, dog, cat or rodent. In all embodiments human cancer antigens and human subjects are preferred.

The present invention in one aspect involves the cloning of cDNAs encoding human cancer associated antigen precursors using autologous antisera of subjects having cancer. The sequences of the clones representing genes identified according to the methods described herein 5 are presented in the attached Sequence Listing, and the predicted amino acid sequences of some clones also are presented. Of the foregoing, it can be seen that some of the clones are considered completely novel as no nucleotide or amino acid homologies to coding regions were found in the databases searched. Other clones are novel but have some homology to sequences deposited in databases (mainly EST sequences). Nevertheless, the entire gene sequence was not previously known. In some cases no function was suspected and in other cases, even if a function was suspected, it was not know that the gene was associated with cancer. In all cases, it was not known or suspected that the gene encoded a cancer antigen which reacted with antibody from autologous sera. Analysis of the clone sequences by comparison to nucleic acid and protein databases determined that still other of the clones surprisingly are closely related to other previously-cloned genes. The sequences of these related genes is also presented in the Sequence Listing. The nature of the foregoing genes as encoding antigens recognized by the immune systems of cancer patients is, of course, unexpected.

10

20

25

The invention thus involves in one aspect cancer associated antigen polypeptides, genes encoding those polypeptides, functional modifications and variants of the foregoing, useful fragments of the foregoing, as well as diagnostics and therapeutics relating thereto.

Homologs and alleles of the cancer associated antigen nucleic acids of the invention can be identified by conventional techniques. Thus, an aspect of the invention is those nucleic acid sequences which code for cancer associated antigen precursors. Because this application contains so many sequences, the following chart is provided to identify the various groups of sequences discussed in the claims and in the summary:

"Nucleic Acid Sequences"

NA Group 1. (a) nucleic acid molecules which hybridize under stringent conditions to a 30 molecule consisting of a nucleic acid sequence selected from the group consisting of nucleic acid sequences among SEQ ID NOs 1-816 and which code for a cancer associated antigen precursor,

- (b) deletions, additions and substitutions which code for a respective cancer associated antigen precursor,
- (c) nucleic acid molecules that differ from the nucleic acid molecules of (a) or (b) in codon sequence due to the degeneracy of the genetic code, and
 - (d) complements of (a), (b) or (c).
- NA Group 2. Fragments of NA Group 1, which codes for a polypeptide which, or a portion of which, binds an MHC molecule to form a complex recognized by a an autologous antibody or lymphocyte.

10

15

5

- NA Group 3. The subset of NA Group 1 where the nucleotide sequence is selected from the group consisting of:
- (a) previously unknown human nucleic acids coding for a human cancer associated antigen precursor,
- (b) deletions, additions and substitutions which code for a respective human The second cancer associated antigen precursor, The second appropriate viscous as a first present of
- (c) nucleic acid molecules that differ from the nucleic acid molecules of (a) or (b) gradikan molyabili. in codon sequence due to the degeneracy of the genetic code, and
 - (d) complements of (a), (b) or (c) the problem is the second of the complements of (a), (b) or (c) the problem is the complements of (a).
 - NA Group 4. Fragments of NA Group 3, which code for a polypeptide which, or a portion of which, binds to an MHC molecule to form a complex recognized by an autologous antibody or lymphocyte.
 - NA Group 5. A subset of NA Group 1, wherein the nucleic acid molecule codes for a human breast cancer associated antigen precursor.
 - NA Group 6. A subset of NA Group 1, wherein the nucleic acid molecule codes for a human colon cancer associated antigen precursor.
 - NA Group 7. A subset of NA Group 1, wherein the nucleic acid molecule codes for a human 30 gastric cancer associated antigen precursor.

NA Group 8. A subset of NA Group 1, wherein the nucleic acid molecule codes for a human lung cancer associated antigen precursor.

NA Group 9. A subset of NA Group 1, wherein the nucleic acid molecule codes for a human renal cancer associated antigen precursor.

NA Group 10. A subset of NA Group 1, wherein the nucleic acid molecule codes for a human prostate cancer associated antigen precursor.

NA Group 11. A subset of NA Group 3, wherein the nucleic acid molecule codes for a human breast cancer associated antigen precursor.

NA Group 12. A subset of NA Group 3, wherein the nucleic acid molecule codes for a human colon cancer associated antigen precursor.

15

NA Group 13: A subset of NA Group 3, wherein the nucleic acid molecule codes for a human and a subset of s

NA Group 14: A subset of NA Group 3, wherein the nucleic acid molecule codes for a human lung cancer associated antigen precursor.

NA Group 15. A subset of NA Group 3, wherein the nucleic acid molecule codes for a human renal cancer associated antigen precursor.

NA Group 16. A subset of NA Group 3, wherein the nucleic acid molecule codes for a human prostate cancer associated antigen precursor.

NA Group 17. A subset of NA Group 1, comprising human cancer associated antigens that react with allogenic cancer antisera.

- PP Group 2. Polypeptides encoded by NA Group 2
- PP Group 3. Polypeptides encoded by NA Group 3.
- PP Group 4. Polypeptides encoded by NA Group 4.
- PP Group 5. Polypeptides encoded by NA Group 5.
- 5 PP Group 6. Polypeptides encoded by NA Group 6.
 - PP Group 7. Polypeptides encoded by NA Group 7.
 - PP Group 8. Polypeptides encoded by NA Group 8.
 - PP Group 9. Polypeptides encoded by NA Group 9.
 - PP Group 10. Polypeptides encoded by NA Group 10.
- 10 PP Group 11. Polypeptides encoded by NA Group 11.
 - PP Group 12. Polypeptides encoded by NA Group 12.
 - PP Group 13. Polypeptides encoded by NA Group 13.
 - PP Group 14. Polypeptides encoded by NA Group 14.
 - PP Group 15. Polypeptides encoded by NA Group 15.
- 15 PP Group 16. Polypeptides encoded by NA Group 16.

eti oleh kanggap begéngkan jerdin darah di d

30

PP Group 17. Polypeptides encoded by NA Group 17.

The term "stringent conditions" as used herein refers to parameters with which the art is familiar. Nucleic acid hybridization parameters may be found in references which compile such methods, e.g. *Molecular Cloning: A Laboratory Manual*, J. Sambrook, et al., eds., Second Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, 1989, or *Current Protocols in Molecular Biology*, F.M. Ausubel, et al., eds., John Wiley & Sons, Inc., New York. More specifically, stringent conditions, as used herein, refers, for example, to hybridization at 65°C in hybridization buffer (3.5 x SSC, 0.02% Ficoll, 0.02% polyvinyl pyrrolidone, 0.02% Bovine Serum Albumin, 2.5mM NaH₂PO₄(pH7), 0.5% SDS, 2mM EDTA). SSC is 0.15M sodium chloride/0.15M sodium citrate, pH7; SDS is sodium dodecyl sulphate; and EDTA is ethylenediaminetetracetic acid. After hybridization, the membrane upon which the DNA is transferred is washed, for example, in 2 x SSC at room temperature and then at 0.1 - 0.5 x SSC/0.1 x SDS at temperatures up to 68°C.

Committee of the second section of the second

CALL CAN CALL SAN SHERRED TO

There are other conditions, reagents, and so forth which can be used, which result in a similar degree of stringency. The skilled artisan will be familiar with such conditions, and thus they are not given here. It will be understood, however, that the skilled artisan will be able to

manipulate the conditions in a manner to permit the clear identification of homologs and alleles of cancer associated antigen nucleic acids of the invention (e.g., by using lower stringency conditions). The skilled artisan also is familiar with the methodology for screening cells and libraries for expression of such molecules which then are routinely isolated, followed by isolation of the pertinent nucleic acid molecule and sequencing.

5

10

15

20 -

25

30

In general homologs and alleles typically will share at least 40% nucleotide identity and/or at least 50% amino acid identity to the sequences of breast cancer associated antigen nucleic acid and polypeptides, respectively, in some instances will share at least 50% nucleotide identity and/or at least 65% amino acid identity and in still other instances will share at least 60% nucleotide identity and/or at least 75% amino acid identity. The homology can be calculated using various, publicly available software tools developed by NCBI (Bethesda, Maryland) that can be obtained through the internet (ftp:/ncbi.nlm.nih.gov/pub/). Exemplary tools include the BLAST system available at http://wwww.ncbi.nlm.nih.gov. Pairwise and ClustalW alignments (BLOSUM30 matrix setting) as well as Kyte-Doolittle hydropathic analysis can be obtained using the MacVetor sequence analysis software (Oxford Molecular Group). Watson-Crick complements of the foregoing nucleic acids also are embraced by the invention.

In screening for cancer associated antigen genes, a Southern blot may be performed using the foregoing conditions, together with a radioactive probe. After washing the membrane to which the DNA is finally transferred, the membrane can be placed against X-ray film to detect the radioactive signal. In screening for the expression of cancer associated antigen nucleic acids, Northern blot hybridizations using the foregoing conditions (see also the Examples) can be performed on samples taken from breast cancer patients or subjects suspected of having a condition characterized by expression of breast cancer associated antigen genes. Amplification protocols such as polymerase chain reaction using primers which hybridize to the sequences presented also can be used for detection of the cancer associated antigen genes or expression thereof.

The breast cancer associated genes correspond to SEQ ID NOs. 1-40 and 66. The preferred breast cancer associated antigens for the methods of diagnosis disclosed herein are those set forth in SEQ ID NOs:[31, 33 and 34], which were found to react with allogeneic breast cancer antisera. Encoded polypeptides (e.g., proteins), peptides and antisera thereto are also preferred for diagnosis.

The colon cancer associated genes correspond to SEQ ID Nos. 544-586, even numbers

only. The preferred colon cancer associated antigens for the methods of diagnosis disclosed herein are those, which were found to react with allogeneic colon cancer antisera. Encoded polypeptides (e.g., proteins), peptides and antisera thereto are also preferred for diagnosis.

The gastric cancer associated genes correspond to SEQ ID NOs 176-436 and 588-674.

The preferred gastric cancer associated antigens for the methods of diagnosis disclosed herein are those, which were found to react with allogeneic gastric cancer antisera. Encoded polypeptides (e.g., proteins), peptides and antisera thereto are also preferred for diagnosis.

The renal cancer associated genes correspond to SEQ ID Nos. 89-169, odd numbers only, and 170, 172, and 174. The preferred renal cancer associated antigens for the methods of diagnosis disclosed herein are those, which were found to react with allogeneic renal cancer antisera. Encoded polypeptides (e.g., proteins), peptides and antisera thereto are also preferred for diagnosis.

10

20

25

The lung cancer associated genes correspond to SEQ ID Nos. 689, 691, 692, 694, 696-707, 709, 711, and 712. The preferred lung cancer associated antigens for the methods of diagnosis disclosed herein are those, which were found to react with allogeneic lung cancer antisera. Encoded polypeptides (e.g., proteins), peptides and antisera thereto are also preferred for diagnosis.

The prostate cancer associated genes correspond to SEQ ID NOs 437-543. The preferred prostate cancer associated antigens for the methods of diagnosis disclosed herein are those, which were found to react with allogeneic prostate cancer antisera. Encoded polypeptides (e.g., proteins), peptides and antisera thereto are also preferred for diagnosis.

The invention also includes degenerate nucleic acids which include alternative codons to those present in the native materials. For example, serine residues are encoded by the codons TCA, AGT, TCC, TCG, TCT and AGC. Each of the six codons is equivalent for the purposes of encoding a serine residue. Thus, it will be apparent to one of ordinary skill in the art that any of the serine-encoding nucleotide triplets may be employed to direct the protein synthesis apparatus, in vitro or in vivo, to incorporate a serine residue into an elongating breast cancer associated antigen polypeptide. Similarly, nucleotide sequence triplets which encode other amino acid residues include, but are not limited to: CCA, CCC, CCG and CCT (proline codons); CGA, CGC, CGG, CGT, AGA and AGG (arginine codons); ACA, ACC, ACG and ACT (threonine codons); AAC and AAT (asparagine codons); and ATA, ATC and ATT (isoleucine codons). Other amino acid residues may be encoded similarly by multiple nucleotide sequences. Thus,

the invention embraces degenerate nucleic acids that differ from the biologically isolated nucleic acids in codon sequence due to the degeneracy of the genetic code.

The invention also provides isolated unique fragments of cancer associated antigen nucleic acid sequences or complements thereof. A unique fragment is one that is a 'signature' for the larger nucleic acid. It, for example, is long enough to assure that its precise sequence is not found in molecules within the human genome outside of the cancer associated antigen nucleic acids defined above (and human alleles). Those of ordinary skill in the art may apply no more than routine procedures to determine if a fragment is unique within the human genome. Unique fragments. however, exclude fragments completely composed of the nucleotide sequences of any of GenBank accession numbers listed in Table 1 or other previously published sequences as of the filing date of the priority documents for sequences listed in a respective priority document or the filing date of this application for sequences listed for the first time in this application which overlap the sequences of the invention.

10

15

20

25

A fragment which is completely composed of the sequence described in the foregoing GenBank deposits is one which does not include any of the nucleotides unique to the sequences of the invention. Thus, a unique fragment must contain a nucleotide sequence other than the exact sequence of those in GenBank or fragments thereof. The difference may be an addition, deletion or substitution with respect to the GenBank sequence or it may be a sequence wholly separate from the GenBank sequence.

Unique fragments can be used as probes in Southern and Northern blot assays to identify such nucleic acids, or can be used in amplification assays such as those employing PCR. As known to those skilled in the art, large probes such as 200, 250, 300 or more nucleotides are preferred for certain uses such as Southern and Northern blots, while smaller fragments will be preferred for uses such as PCR. Unique fragments also can be used to produce fusion proteins for generating antibodies or determining binding of the polypeptide fragments, or for generating immunoassay components. Likewise, unique fragments can be employed to produce nonfused fragments of the cancer associated antigen polypeptides, useful, for example, in the preparation of antibodies, and in immunoassays. Unique fragments further can be used as antisense molecules to inhibit the expression of cancer associated antigen nucleic acids and polypeptides, particularly for therapeutic 30 purposes as described in greater detail below.

As will be recognized by those skilled in the art, the size of the unique fragment will depend upon its conservancy in the genetic code. Thus, some regions of cancer associated antigen sequences and complements thereof will require longer segments to be unique while others will require only short segments, typically between 12 and 32 nucleotides (e.g. 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 and 32 or more bases long, up to the entire length of the disclosed sequence. As mentioned above, this disclosure intends to embrace each and every fragment of each sequence, beginning at the first nucleotide, the second nucleotide and so on, up to 8-nucleotides short of the end, and ending anywhere from nucleotide number 8, 9, 10 and so on for each sequence, up to the very last nucleotide, (provided the sequence is unique as described above).

Virtually any segment of the polypeptide coding region of novel cancer associated antigen nucleic acids, or complements thereof, that is 18 or more nucleotides in length will be unique. Those skilled in the art are well versed in methods for selecting such sequences, typically on the basis of the ability of the unique fragment to selectively distinguish the sequence of interest from other sequences in the human genome of the fragment to those on known databases typically is all that is necessary, although in vitro confirmatory hybridization and sequencing analysis may be a sequen performed. Especially preferred include nucleic acids encoding a series of epitopes, known as "polytopes". The epitopes can be arranged in sequential or overlapping fashion (see, e.g., Thomson et al., Proc. Natl. Acad. Sci. USA 92:5845-5849, 1995; Gilbert et al., Nature Biotechnol. 15:1280 uti. Sci. Sci. 1284, 1997), with or without the natural flanking sequences, and can be separated by unrelated the sequences and can be separated by unrelated to the sequences. linker sequences if desired. The polytope is processed to generated individual epitopes which are recognized by the immune system for generation of immune responses.

10

20

25

Thus, for example, peptides derived from a polypeptide having an amino acid sequence encoded by one of the nucleic acid disclosed herein, and which are presented by MHC molecules and recognized by CTL or T helper lymphocytes, can be combined with peptides from one or more other cancer associated antigens (e.g. by preparation of hybrid nucleic acids or polypeptides) to form "polytopes". The two or more peptides (or nucleic acids encoding the peptides) can be selected from those described herein, or they can include one or more peptides of previously known cancer associated antigens. Exemplary cancer associated peptide antigens that can be administered to induce or enhance an immune response are derived from tumor associated genes and encoded 30 proteins including MAGE-1, MAGE-2, MAGE-3, MAGE-4, MAGE-5, MAGE-6, MAGE-7,

MAGE-8, MAGE-9, MAGE-10, MAGE-11, GAGE-1, GAGE-2, GAGE-3, GAGE-4, GAGE-5, GAGE-6, BAGE-1, RAGE-1, LB33/MUM-1, PRAME, NAG, MAGE-Xp2, MAGE-Xp3, MAGE-Xp4, tyrosinase, brain glycogen phosphorylase, Melan-A, and MAGE-C1. See, for example, PCT application publication no. WO96/10577. Other examples will be known to one of ordinary skill in the art (for example, see Coulie, Stem Cells 13:393-403, 1995), and can be used in the invention in a like manner as those disclosed herein. One of ordinary skill in the art can prepare polypeptides comprising one or more peptides and one or more of the foregoing cancer associated peptides, or nucleic-acids-encoding-such-polypeptides, according to standard-procedures of molecular biology.

Thus polytopes are groups of two or more potentially immunogenic or immune response stimulating peptides which can be joined together in various arrangements (e.g. concatenated, overlapping). The polytope (or nucleic acid encoding the polytope) can be administered in a standard immunization protocol, e.g. to animals, to test the effectiveness of the polytope in stimulating, enhancing and/or provoking an immune response.

10

20

25

The peptides can be joined together directly or via the use of flanking sequences to form polytopes, and the use of polytopes as vaccines is well known in the art (see, e.g., Thomson et al., Proc. Acad. Natl. Acad. Sci USA 92(13):5845-5849, 1995; Gilbert et al., Nature Biotechnol. 15(12):1280-1284, 1997; Thomson et al., J. Immunol. 157(2):822-826; 1996; Tam et al., J. Exp. 1284 Med: 171(1):299-306, 1990). for example, Tam showed that polytopes consisting of both MHC class I and class II binding epitopes successfully generated antibody and protective immunity in a mouse model. Tam also demonstrated that polytopes comprising "strings" of epitopes are processed to yield individual epitopes which are presented by MHC molecules and recognized by CTLs. Thus polytopes containing various numbers and combinations of epitopes can be prepared and tested for recognition by CTLs and for efficacy in increasing an immune response.

It is known that tumors express a set of tumor antigens, of which only certain subsets may be expressed in the tumor of any given patient (for examples of this, see the Examples below). Polytopes can be prepared which correspond to the different combination of epitopes representing the subset of tumor rejection antigens expressed in a particular patient. Polytopes also can be prepared to reflect a broader spectrum of tumor rejection antigens known to be expressed by a tumor type. Polytopes can be introduced to a patient in need of such treatment as polypeptide structures, or 30 via the use of nucleic acid delivery systems known in the art (see, e.g., Allsopp et al., Eur. J.

Immunol. 26(8):1951-1959, 1996). Adenovirus, pox virus, Ty-virus like particles, adeno-associated virus, plasmids, bacteria, etc. can be used in such delivery. One can test the polytope delivery systems in mouse models to determine efficacy of the delivery system. The systems also can be tested in human clinical trials.

5

10

20

25

In instances in which a human HLA class I molecule presents tumor rejection antigens derived from cancer associated nucleic acids, the expression vector may also include a nucleic acid sequence coding for the HLA molecule that presents any particular tumor rejection antigen derived from these nucleic acids and polypeptides. Alternatively, the nucleic acid sequence coding for such a HLA molecule can be contained within a separate expression vector. In a situation where the vector contains both coding sequences, the single vector can be used to transfect a cell which does not normally express either one. Where the coding sequences for a cancer associated antigen precursor and the HLA molecule which presents it are contained on separate expression vectors, the expression vectors can be cotransfected. The cancer associated antigen precursor coding sequence may be used alone, when, e.g. the host cell already expresses a HLA molecule which presents a 15 cancer associated antigen derived from precursor molecules. Of course, there is no limit on the particular host cell which can be used. As the vectors which contain the two coding sequences may be used in any antigen-presenting cells if desired, and the gene for cancer associated antigen a agreement precursor can be used in host cells which do not express a HIA molecule which presents a cancer associated antigen. Further, cell-free transcription systems may be used in lieu of cells.

As mentioned above, the invention embraces antisense oligonucleotides that selectively bind to a nucleic acid molecule encoding a cancer associated antigen polypeptide, to reduce the expression of cancer associated antigens. This is desirable in virtually any medical condition wherein a reduction of expression of cancer associated antigens is desirable, e.g., in the treatment of cancer. This is also useful for in vitro or in vivo testing of the effects of a reduction of expression of one or more cancer associated antigens.

As used herein, the term "antisense oligonucleotide" or "antisense" describes an oligonucleotide that is an oligoribonucleotide, oligodeoxyribonucleotide, modified oligoribonucleotide, or modified oligodeoxyribonucleotide which hybridizes under physiological conditions to DNA comprising a particular gene or to an mRNA transcript of that gene and, thereby, inhibits the transcription of that gene and/or the translation of that mRNA. The antisense molecules

エンエノリロノロノエマロノノ

are designed so as to interfere with transcription or translation of a target gene upon hybridization with the target gene or transcript. Those skilled in the art will recognize that the exact length of the antisense oligonucleotide and its degree of complementarity with its target will depend upon the specific target selected, including the sequence of the target and the particular bases which comprise that sequence. It is preferred that the antisense oligonucleotide be constructed and arranged so as to bind selectively with the target under physiological conditions, i.e., to hybridize substantially more to the target sequence than to any other sequence in the target cell under physiological conditions. Based upon the sequences of nucleic acids encoding breast cancer associated antigen, or upon allelic or homologous genomic and/or cDNA sequences, one of skill in the art can easily choose and synthesize any of a number of appropriate antisense molecules for use in accordance with the present invention. In order to be sufficiently selective and potent for inhibition, such antisense oligonucleotides should comprise at least 10 and, more preferably, at least 15 consecutive bases which are complementary to the target, although in certain cases modified oligonucleotides as short as 7 bases in length have been used successfully as antisense oligonucleotides (Wagner et al., Nature Biotechnol. 14:840-844, 1996). Most preferably, the antisense oligonucleotides comprise a complementary sequence of 20-30 bases. Although oligonucleotides may be chosen which are antisense to any region of the gene or mRNA transcripts, in preferred embodiments the antisense oligonucleotides correspond to N-terminal or 5! upstream sites such as translation initiation, TROUGHER WAR transcription initiation or promoter sites. In addition, 3'-untranslated regions may be targeted. Targeting to mRNA splicing sites has also been used in the art but may be less preferred if alternative mRNA splicing occurs. In addition, the antisense is targeted, preferably, to sites in which mRNA secondary structure is not expected (see, e.g., Sainio et al., Cell Mol. Neurobiol. 14(5):439-457, 1994) and at which proteins are not expected to bind. Finally, although the listed sequences are cDNA sequences, one of ordinary skill in the art may easily derive the genomic DNA corresponding to the cDNA of a cancer associated antigen. Thus, the present invention also provides for antisense oligonucleotides which are complementary to the genomic DNA corresponding to nucleic acids encoding breast cancer associated antigens. Similarly, antisense to allelic or homologous cDNAs

10

15

In one set of embodiments, the antisense oligonucleotides of the invention may be composed of "natural" deoxyribonucleotides, ribonucleotides, or any combination thereof. That is, the 5' end

and genomic DNAs are enabled without undue experimentation.

of one native nucleotide and the 3' end of another native nucleotide may be covalently linked, as in natural systems, via a phosphodiester internucleoside linkage. These oligonucleotides may be prepared by art recognized methods which may be carried out manually or by an automated synthesizer. They also may be produced recombinantly by vectors.

In preferred embodiments, however, the antisense oligonucleotides of the invention also may include "modified" oligonucleotides. That is, the oligonucleotides may be modified in a number of ways which do not prevent them from hybridizing to their target but which enhance their stability or targeting or which otherwise enhance their therapeutic effectiveness.

5

10

20

The term "modified oligonucleotide" as used herein describes an oligonucleotide in which (1) at least two of its nucleotides are covalently linked via a synthetic internucleoside linkage (i.e., a linkage other than a phosphodiester linkage between the 5' end of one nucleotide and the 3' end of another nucleotide) and/or (2) a chemical group not normally associated with nucleic acids has been covalently attached to the oligonucleotide. Preferred synthetic internucleoside linkages are phosphorothioates, alkylphosphonates, phosphorodithioates, phosphate esters,

15 alkylphosphonothioates, phosphoramidates, carbamates, carbonates, phosphate triesters, a specific triester, a specifi acetamidates, carboxymethyl esters and peptides. - the said of the

The term "modified oligonucleotide" also encompasses oligonucleotides with a covalently modified base and/or sugar. For example, modified oligonucleotides include oligonucleotides having backbone sugars which are covalently attached to low molecular weight organic groups other than a hydroxyl group at the 3' position and other than a phosphate group at the 5' position. Thus modified oligonucleotides may include a 2'-O-alkylated ribose group. In addition, modified oligonucleotides may include sugars such as arabinose instead of ribose. The present invention. thus, contemplates pharmaceutical preparations containing modified antisense molecules that are complementary to and hybridizable with, under physiological conditions, nucleic acids encoding breast cancer associated antigen polypeptides, together with pharmaceutically acceptable carriers.

Antisense oligonucleotides may be administered as part of a pharmaceutical composition. Such a pharmaceutical composition may include the antisense oligonucleotides in combination with any standard physiologically and/or pharmaceutically acceptable carriers which are known in the art. The compositions should be sterile and contain a therapeutically effective amount of the antisense oligonucleotides in a unit of weight or volume suitable for administration to a patient. The term

- 17-5-2

"pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredients. The term "physiologically acceptable" refers to a non-toxic material that is compatible with a biological system such as a cell, cell culture, tissue, or organism. The characteristics of the carrier will depend on the route of administration. Physiologically and pharmaceutically acceptable carriers include diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials which are well known in the art, as further described below.

5

10

15

25

As used herein, a "vector" may be any of a number of nucleic acids into which a desired sequence may be inserted by restriction and ligation for transport between different genetic environments or for expression in a host cell. Vectors are typically composed of DNA although RNA vectors are also available. Vectors include, but are not limited to, plasmids, phagemids and virus genomes. A cloning vector is one which is able to replicate in a host cell, and which is further characterized by one or more endonuclease restriction sites at which the vector may be cut in a determinable fashion and into which a desired DNA sequence may be ligated such that the new recombinant vector retains its ability to replicate in the host cell. In the case of plasmids, replication of the desired sequence may occur many times as the plasmid increases in copy number within the host bacterium or just a single time per host before the host reproduces by mitosis. In the case of phage, replication may occur actively during a lytic phase or passively during a lysogenic phase. An expression vector is one into which a desired DNA sequence may be inserted by restriction and ligation such that it is operably joined to regulatory sequences and may be expressed as an RNA transcript. Vectors may further contain one or more marker sequences suitable for use in the identification of cells which have or have not been transformed or transfected with the vector. Markers include, for example, genes encoding proteins which increase or decrease either resistance or sensitivity to antibiotics or other compounds, genes which encode enzymes whose activities are detectable by standard assays known in the art (e.g., ß-galactosidase or alkaline phosphatase), and genes which visibly affect the phenotype of transformed or transfected cells, hosts, colonies or plaques (e.g., green fluorescent protein). Preferred vectors are those capable of autonomous replication and expression of the structural gene products present in the DNA segments to which they are operably joined.

As used herein, a coding sequence and regulatory sequences are said to be "operably" joined

I CII COZULTULA

when they are covalently linked in such a way as to place the expression or transcription of the coding sequence under the influence or control of the regulatory sequences. If it is desired that the coding sequences be translated into a functional protein, two DNA sequences are said to be operably ioined if induction of a promoter in the 5' regulatory sequences results in the transcription of the coding sequence and if the nature of the linkage between the two DNA sequences does not (1) result in the introduction of a frame-shift mutation, (2) interfere with the ability of the promoter region to direct the transcription of the coding sequences, or (3) interfere with the ability of the corresponding RNA transcript to be translated into a protein. Thus, a promoter region would be operably joined to a coding sequence if the promoter region were capable of effecting transcription of that DNA sequence such that the resulting transcript might be translated into the desired protein or polypeptide.

The precise nature of the regulatory sequences needed for gene expression may vary between species or cell types, but shall in general include, as necessary, 5' non-transcribed and 5' nontranslated sequences involved with the initiation of transcription and translation respectively, such as 15 a TATA box, capping sequence, CAAT sequence, and the like. Especially, such 5' non-transcribed regulatory sequences will include a promoter region which includes a promoter sequence for sequence and the sequence of the se transcriptional control of the operably joined gene. Regulatory sequences may also include enhancer. sequences or upstream activator sequences as desired. The vectors of the invention may optionally include 5' leader or signal sequences. The choice and design of an appropriate vector is within the ability and discretion of one of ordinary skill in the art.

20

25

Expression vectors containing all the necessary elements for expression are commercially available and known to those skilled in the art. See, e.g., Sambrook et al., Molecular Cloning: A Laboratory Manual, Second Edition, Cold Spring Harbor Laboratory Press, 1989. Cells are genetically engineered by the introduction into the cells of heterologous DNA (RNA) encoding a breast cancer associated antigen polypeptide or fragment or variant thereof. That heterologous DNA (RNA) is placed under operable control of transcriptional elements to permit the expression of the heterologous DNA in the host cell.

Preferred systems for mRNA expression in mammalian cells are those such as pRc/CMV (available from Invitrogen, Carlsbad, CA) that contain a selectable marker such as a gene that 30 confers G418 resistance (which facilitates the selection of stably transfected cell lines) and the

human cytomegalovirus (CMV) enhancer-promoter sequences. Additionally, suitable for expression in primate or canine cell lines is the pCEP4 vector (Invitrogen), which contains an Epstein Barr Virus (EBV) origin of replication, facilitating the maintenance of plasmid as a multicopy extrachromosomal element. Another expression vector is the pEF-BOS plasmid containing the promoter of polypeptide Elongation Factor 1a, which stimulates efficiently transcription in vitro. The plasmid is described by Mishizuma and Nagata (Nuc. Acids Res. 18:5322, 1990), and its use in transfection experiments is disclosed by, for example, Demoulin (Mol. Cell. Biol. 16:4710-4716. 1996). Still another-preferred-expression-vector is an adenovirus, described by Stratford-Perricaudet, which is defective for E1 and E3 proteins (J. Clin. Invest. 90:626-630, 1992). The use of the adenovirus as an Adeno.P1A recombinant for the expression of an antigen is disclosed by Warnier et al., in intradermal injection in mice for immunization against P1A (Int. J. Cancer, 67:303-310, 1996). Additional vectors for delivery of nucleic acid are provided below.

The invention also embraces so-called expression kits, which allow the artisan to prepare a desired expression vector or vectors. Such expression kits include at least separate portions of a vector and one or more of the previously discussed breast cancer associated antigen nucleic acid molecules. Other components may be added, as desired, as long as the previously mentioned nucleic acid molecules, which are required, are included. The invention also includes kits for amplification of a breast cancer associated antigen nucleic acid, including at least one pair of house amplification primers which hybridize to a breast cancer associated antigen nucleic acid. The primers preferably are 12-32 nucleotides in length and are non-overlapping to prevent formation of "primer-dimers". One of the primers will hybridize to one strand of the breast cancer associated antigen nucleic acid and the second primer will hybridize to the complementary strand of the breast cancer associated antigen nucleic acid, in an arrangement which permits amplification of the breast cancer associated antigen nucleic acid. Selection of appropriate primer pairs is standard in the art. For example, the selection can be made with assistance of a computer program designed for such a purpose, optionally followed by testing the primers for amplification specificity and efficiency.

20

25

The invention also permits the construction of cancer associated antigen gene "knock-outs" in cells and in animals, providing materials for studying certain aspects of cancer and immune system responses to cancer.

The invention also provides isolated polypeptides (including whole proteins and partial

proteins) encoded by the foregoing cancer associated antigen nucleic acids. Such polypeptides are useful, for example, alone or as fusion proteins to generate antibodies, as components of an immunoassay or diagnostic assay or as therapeutics. Cancer associated antigen polypeptides can be isolated from biological samples including tissue or cell homogenates, and can also be expressed recombinantly in a variety of prokaryotic and eukaryotic expression systems by constructing an expression vector appropriate to the expression system, introducing the expression vector into the expression system, and isolating the recombinantly expressed protein. Short polypeptides, including antigenic peptides (such as are presented by MHC molecules on the surface of a cell-for-immune recognition) also can be synthesized chemically using well-established methods of peptide synthesis.

A unique fragment of a cancer associated antigen polypeptide, in general, has the features and characteristics of unique fragments as discussed above in connection with nucleic acids. As will be recognized by those skilled in the art, the size of the unique fragment will depend upon factors such as whether the fragment constitutes a portion of a conserved protein domain. Thus, some regions of breast cancer associated antigens will require longer segments to be unique while others will require only short segments, typically between 5 and 12 amino acids (e.g. 5, 6, 7, 8, 9, 10, 11 or 12 or more, including each integer up to the full length, amino acids long).

10

20

25

Unique fragments of a polypeptide preferably are those fragments which retain a distinct functional capability of the polypeptide. Functional capabilities which can be retained in a unique fragment of a polypeptide include interaction with antibodies, interaction with other polypeptides or fragments thereof, selective binding of nucleic acids or proteins, and enzymatic activity. One important activity is the ability to act as a signature for identifying the polypeptide. Another is the ability to complex with HLA and to provoke in a human an immune response. Those skilled in the art are well versed in methods for selecting unique amino acid sequences, typically on the basis of the ability of the unique fragment to selectively distinguish the sequence of interest from non-family members. A comparison of the sequence of the fragment to those on known databases typically is all that is necessary.

The invention embraces variants of the cancer associated antigen polypeptides described above. As used herein, a "variant" of a cancer associated antigen polypeptide is a polypeptide which contains one or more modifications to the primary amino acid sequence of a cancer associated antigen polypeptide. Modifications which create a cancer associated antigen variant can be made to

a cancer associated antigen polypeptide 1) to reduce or eliminate an activity of a cancer associated antigen polypeptide; 2) to enhance a property of a cancer associated antigen polypeptide, such as protein stability in an expression system or the stability of protein-protein binding; 3) to provide a novel activity or property to a cancer associated antigen polypeptide, such as addition of an antigenic epitope or addition of a detectable moiety; or 4) to provide equivalent or better binding to an HLA molecule. Modifications to a cancer associated antigen polypeptide are typically made to the nucleic acid which encodes the cancer associated antigen polypeptide, and can include deletions, point mutations, truncations, amino acid-substitutions and additions of amino acids or non-amino acid moieties. Alternatively, modifications can be made directly to the polypeptide, such as by cleavage, addition of a linker molecule, addition of a detectable moiety, such as biotin, addition of a fatty acid, and the like. Modifications also embrace fusion proteins comprising all or part of the cancer associated antigen amino acid sequence. One of skill in the art will be familiar with methods for predicting the effect on protein conformation of a change in protein sequence, and can thus "design" a variant cancer associated antigen polypeptide according to known methods. One example of such a method is described by Dahiyat and Mayo in Science 278:82-87, 1997, whereby proteins can be designed de novo. The method can be applied to a known protein to vary a only a portion of the polypeptide sequence. By applying the computational methods of Dahiyat and Mayo, specific variants of a cancer associated antigen polypeptide can be proposed and tested to determine whether the variant retains a desired conformation.

10

20

25

In general, variants include cancer associated antigen polypeptides which are modified specifically to alter a feature of the polypeptide unrelated to its desired physiological activity. For example, cysteine residues can be substituted or deleted to prevent unwanted disulfide linkages. Similarly, certain amino acids can be changed to enhance expression of a breast cancer associated antigen polypeptide by eliminating proteolysis by proteases in an expression system (e.g., dibasic amino acid residues in yeast expression systems in which KEX2 protease activity is present).

Mutations of a nucleic acid which encode a cancer associated antigen polypeptide preferably preserve the amino acid reading frame of the coding sequence, and preferably do not create regions in the nucleic acid which are likely to hybridize to form secondary structures, such a hairpins or loops, which can be deleterious to expression of the variant polypeptide.

Mutations can be made by selecting an amino acid substitution, or by random mutagenesis of

a selected site in a nucleic acid which encodes the polypeptide. Variant polypeptides are then expressed and tested for one or more activities to determine which mutation provides a variant polypeptide with the desired properties. Further mutations can be made to variants (or to nonvariant cancer associated antigen polypeptides) which are silent as to the amino acid sequence of the polypeptide, but which provide preferred codons for translation in a particular host. The preferred codons for translation of a nucleic acid in, e.g., E. coli, are well known to those of ordinary skill in the art. Still other mutations can be made to the noncoding sequences of a cancer associated antigen gene or cDNA clone to enhance expression of the polypeptide. The activity of variants of cancerassociated antigen polypeptides can be tested by cloning the gene encoding the variant cancer associated antigen polypeptide into a bacterial or mammalian expression vector, introducing the vector into an appropriate host cell, expressing the variant cancer associated antigen polypeptide, and testing for a functional capability of the cancer associated antigen polypeptides as disclosed herein. For example, the variant cancer associated antigen polypeptide can be tested for reaction with autologous or allogeneic sera as disclosed in the Examples. Preparation of other variant 15 polypeptides may favor testing of other activities, as will be known to one of ordinary skill in the art. The skilled artisan will also realize that conservative amino acid substitutions may be made in cancer associated antigen polypeptides to provide functionally equivalent variants of the foregoing polypeptides, i.e., the variants retain the functional capabilities of the cancer associated. antigen polypeptides. As used herein, a "conservative amino acid substitution" refers to an amino acid substitution which does not alter the relative charge or size characteristics of the protein in which the amino acid substitution is made. Variants can be prepared according to methods for altering polypeptide sequence known to one of ordinary skill in the art such as are found in references which compile such methods, e.g. Molecular Cloning: A Laboratory Manual, J. Sambrook, et al., eds., Second Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, 1989, or Current Protocols in Molecular Biology, F.M. Ausubel, et al., eds., John Wiley & Sons, Inc., New York. Exemplary functionally equivalent variants of the cancer associated antigen polypeptides include conservative amino acid substitutions of in the amino acid sequences of SEQ ID proteins disclosed herein. Conservative substitutions of amino acids include substitutions made amongst amino acids within the following groups: (a) M, I, L, V; (b) F, Y, W; (c)

K, R, H; (d) A, G; (e) S, T; (f) Q, N; and (g) E, D.

10

25

For example, upon determining that a peptide derived from a cancer associated antigen polypeptide is presented by an MHC molecule and recognized by CTLs (e.g., as described in the Examples), one can make conservative amino acid substitutions to the amino acid sequence of the peptide, particularly at residues which are thought not to be direct contact points with the MHC molecule. For example, methods for identifying functional variants of HLA class II binding peptides are provided in a published PCT application of Strominger and Wucherpfennig (PCT/US96/03182). Peptides bearing one or more amino acid substitutions also can be tested for concordance-with-known-HLA/MHC motifs-prior-to-synthesis-using, e.g. the computer program described by D'Amaro and Drijfhout (D'Amaro et al., Human Immunol. 43:13-18, 1995; Drijfhout et al., Human Immunol. 43:1-12, 1995). The substituted peptides can then be tested for binding to the MHC molecule and recognition by CTLs when bound to MHC. These variants can be tested for improved stability and are useful, inter alia, in vaccine compositions.

10

20

25

Conservative amino-acid substitutions in the amino acid sequence of cancer associated antigen polypeptides to produce functionally equivalent variants of cancer associated antigen polypeptides typically are made by alteration of a nucleic acid encoding a cancer associated antigen polypeptide. Such substitutions can be made by a variety of methods known to one of ordinary skill in the art. For example, amino acid substitutions may be made by PCR-directed mutation, sitedirected mutagenesis according to the method of Kunkel (Kunkel, Proc. Nat. Acad. Sci. U.S.A. 82: 488-492, 1985), or by chemical synthesis of a gene encoding a cancer associated antigen polypeptide. Where amino acid substitutions are made to a small unique fragment of a cancer associated antigen polypeptide, such as an antigenic epitope recognized by autologous or allogeneic sera or cytolytic T lymphocytes, the substitutions can be made by directly synthesizing the peptide. The activity of functionally equivalent fragments of cancer associated antigen polypeptides can be tested by cloning the gene encoding the altered cancer associated antigen polypeptide into a bacterial or mammalian expression vector, introducing the vector into an appropriate host cell, expressing the altered cancer associated antigen polypeptide, and testing for a functional capability of the cancer associated antigen polypeptides as disclosed herein. Peptides which are chemically synthesized can be tested directly for function, e.g., for binding to antisera recognizing associated antigens.

The invention as described herein has a number of uses, some of which are described elsewhere herein. First, the invention permits isolation of the cancer associated antigen protein molecules. A variety of methodologies well-known to the skilled practitioner can be utilized to obtain isolated cancer associated antigen molecules. The polypeptide may be purified from cells which naturally produce the polypeptide by chromatographic means or immunological recognition. Alternatively, an expression vector may be introduced into cells to cause production of the polypeptide. In another method, mRNA transcripts may be microinjected or otherwise introduced into cells to cause production of the encoded polypeptide. Translation of mRNA in cell-free extracts such as the reticulocyte lysate system also may be used to produce polypeptide. Those skilled in the art also can readily follow known methods for isolating cancer associated antigen polypeptides.

These include, but are not limited to, immunochromatography, HPLC, size-exclusion chromatography, ion-exchange chromatography and immune-affinity chromatography.

10

15

20

25

The isolation and identification of cancer associated antigen genes also makes it possible for the artisan to diagnose a disorder characterized by expression of cancer associated antigens. These methods involve determining expression of one or more cancer associated antigen nucleic acids, and/or encoded cancer associated antigen polypeptides and/or peptides derived therefrom. In the former situation, such determinations can be carried out via any standard nucleic acid determination assay, including the polymerase chain reaction, or assaying with labeled hybridization probes. In the latter situation, such determinations can be carried out by screening patient antisera for recognition of the polypeptide.

The invention also makes it possible isolate proteins which bind to cancer associated antigens as disclosed herein, including antibodies and cellular binding partners of the cancer associated antigens. Additional uses are described further herein.

The invention also provides, in certain embodiments, "dominant negative" polypeptides derived from cancer associated antigen polypeptides. A dominant negative polypeptide is an inactive variant of a protein, which, by interacting with the cellular machinery, displaces an active protein from its interaction with the cellular machinery or competes with the active protein, thereby reducing the effect of the active protein. For example, a dominant negative receptor which binds a ligand but does not transmit a signal in response to binding of the ligand can reduce the biological effect of expression of the ligand. Likewise, a dominant negative catalytically-inactive kinase which interacts normally with target proteins but does not phosphorylate the target proteins can reduce phosphorylation of the target proteins in response to a cellular signal. Similarly, a dominant

negative transcription factor which binds to a promoter site in the control region of a gene but does not increase gene transcription can reduce the effect of a normal transcription factor by occupying promoter binding sites without increasing transcription.

The end result of the expression of a dominant negative polypeptide in a cell is a reduction in function of active proteins. One of ordinary skill in the art can assess the potential for a dominant negative variant of a protein, and using standard mutagenesis techniques to create one or more dominant negative variant polypeptides. For example, given the teachings contained herein of cancer associated antigens, especially those which are similar to known proteins which have known activities, one of ordinary skill in the art can modify the sequence of the cancer associated antigens by site-specific mutagenesis, scanning mutagenesis, partial gene deletion or truncation, and the like. See, e.g., U.S. Patent No. 5,580,723 and Sambrook et al., *Molecular Cloning: A Laboratory Manual*, Second Edition, Cold Spring Harbor Laboratory Press, 1989. The skilled artisan then can test the population of mutagenized polypeptides for diminution in a selected and/or for retention of such an activity. Other similar methods for creating and testing dominant negative variants of a protein will be apparent to one of ordinary skill in the art.

10

15

20

25

The invention also involves agents such as polypeptides which bind to cancer associated antigen polypeptides. Such binding agents can be used, for example, in screening assays to detect the presence or absence of cancer associated antigen polypeptides and complexes of cancer associated antigen polypeptides and their binding partners and in purification protocols to isolated cancer associated antigen polypeptides and complexes of cancer associated antigen polypeptides and their binding partners. Such agents also can be used to inhibit the native activity of the cancer associated antigen polypeptides, for example, by binding to such polypeptides.

The invention, therefore, embraces peptide binding agents which, for example, can be antibodies or fragments of antibodies having the ability to selectively bind to cancer associated antigen polypeptides. Antibodies include polyclonal and monoclonal antibodies, prepared according to conventional methodology.

Significantly, as is well-known in the art, only a small portion of an antibody molecule, the paratope, is involved in the binding of the antibody to its epitope (see, in general, Clark, W.R. (1986) The Experimental Foundations of Modern Immunology Wiley & Sons, Inc., New York;

Roitt, I. (1991) Essential Immunology, 7th Ed., Blackwell Scientific Publications, Oxford). The

pFc' and Fc regions, for example, are effectors of the complement cascade but are not involved in antigen binding. An antibody from which the pFc' region has been enzymatically cleaved, or which has been produced without the pFc' region, designated an F(ab'), fragment, retains both of the antigen binding sites of an intact antibody. Similarly, an antibody from which the Fc region has been enzymatically cleaved, or which has been produced without the Fc region, designated an Fab fragment, retains one of the antigen binding sites of an intact antibody molecule. Proceeding further, Fab fragments consist of a covalently bound antibody light chain and a portion of the antibody heavy chain denoted Fd. The Fd fragments are the major determinant of antibodyspecificity (a single Fd fragment may be associated with up to ten different light chains without altering antibody specificity) and Fd fragments retain epitope-binding ability in isolation.

10

25

Within the antigen-binding portion of an antibody, as is well-known in the art, there are complementarity determining regions (CDRs), which directly interact with the epitope of the antigen, and framework regions (FRs), which maintain the tertiary structure of the paratope (see, in general, Clark, 1986; Roitt, 1991). In both the heavy chain Fd fragment and the light chain of IgG 15 d immunoglobulins, there are four framework regions (FR1 through FR4) separated respectively by three complementarity determining regions (CDR1 through CDR3). The CDRs, and in particular the CDR3 regions, and more particularly the heavy chain CDR3, are largely responsible for antibody. Seesal Sespecificity: The Control of the Co

It is now well-established in the art that the non-CDR regions of a mammalian antibody may be replaced with similar regions of conspecific or heterospecific antibodies while retaining the epitopic specificity of the original antibody. This is most clearly manifested in the development and use of "humanized" antibodies in which non-human CDRs are covalently joined to human FR and/or Fc/pFc' regions to produce a functional antibody. Thus, for example, PCT International Publication Number WO 92/04381 teaches the production and use of humanized murine RSV antibodies in which at least a portion of the murine FR regions have been replaced by FR regions of human origin. Such antibodies, including fragments of intact antibodies with antigen-binding ability, are often referred to as "chimeric" antibodies.

Thus, as will be apparent to one of ordinary skill in the art, the present invention also provides for F(ab')2, Fab, Fv and Fd fragments; chimeric antibodies in which the Fc and/or FR and/or CDR1 and/or CDR2 and/or light chain CDR3 regions have been replaced by homologous human or non-human sequences; chimeric F(ab')₂ fragment antibodies in which the FR and/or CDR1 and/or CDR2 and/or light chain CDR3 regions have been replaced by homologous human or nonhuman sequences; chimeric Fab fragment antibodies in which the FR and/or CDR1 and/or CDR2 and/or light chain CDR3 regions have been replaced by homologous human or non-human sequences; and chimeric Fd fragment antibodies in which the FR and/or CDR1 and/or CDR2 regions have been replaced by homologous human or non-human sequences. The present invention also includes so-called single chain antibodies.

Thus, the invention involves polypeptides of numerous-size and type that bind specifically to cancer associated antigen polypeptides, and complexes of both cancer associated antigen polypeptides and their binding partners. These polypeptides may be derived also from sources other than antibody technology. For example, such polypeptide binding agents can be provided by degenerate peptide libraries which can be readily prepared in solution, in immobilized form or as phage display libraries. Combinatorial libraries also can be synthesized of peptides containing one or more amino acids. Libraries further can be synthesized of peptoids and non-peptide synthetic 15 moieties. Francis Control of the State of

10

20

Phage display can be particularly effective in identifying binding peptides useful according to the particular of the pa to the invention. Briefly, one prepares a phage library (using e.g. m13, fd, or lambda phage), which is a library (using e.g. m13, fd, or lambda phage). displaying inserts from 4 to about 80 amino acid residues using conventional procedures. The and a supplied inserts may represent, for example, a completely degenerate or biased array. One then can select phage-bearing inserts which bind to the cancer associated antigen polypeptide. This process can be repeated through several cycles of reselection of phage that bind to the cancer associated antigen polypeptide. Repeated rounds lead to enrichment of phage bearing particular sequences. DNA sequence analysis can be conducted to identify the sequences of the expressed polypeptides. The minimal linear portion of the sequence that binds to the cancer associated antigen polypeptide can be determined. One can repeat the procedure using a biased library containing inserts containing part or all of the minimal linear portion plus one or more additional degenerate residues upstream or downstream thereof. Yeast two-hybrid screening methods also may be used to identify polypeptides that bind to the cancer associated antigen polypeptides. Thus, the cancer associated antigen polypeptides of the invention, or a fragment thereof, can be used to screen peptide libraries, 30 including phage display libraries, to identify and select peptide binding partners of the cancer

associated antigen polypeptides of the invention. Such molecules can be used, as described, for screening assays, for purification protocols, for interfering directly with the functioning of cancer associated antigen and for other purposes that will be apparent to those of ordinary skill in the art.

As detailed herein, the foregoing antibodies and other binding molecules may be used for example to identify tissues expressing protein or to purify protein. Antibodies also may be coupled to specific diagnostic labeling agents for imaging of cells and tissues that express cancer associated antigens or to therapeutically useful agents according to standard coupling procedures. Diagnostic agents include, but are not limited to, barium sulfate, iocetamic acid, iopanoic acid, ipodate calcium, diatrizoate sodium, diatrizoate meglumine, metrizamide, tyropanoate sodium and radiodiagnostics including positron emitters such as fluorine-18 and carbon-11, gamma emitters such as iodine-123, technitium-99m, iodine-131 and indium-111, nuclides for nuclear magnetic resonance such as fluorine and gadolinium. Other diagnostic agents useful in the invention will be apparent to one of ordinary skill in the art. As used herein, "therapeutically useful agents" include any therapeutic molecule which desirably is targeted selectively to a cell expressing one of the cancer antigens disclosed herein, including antineoplastic agents, radioiodinated compounds, toxins, other cytostatic or cytolytic drugs, and so forth. Antineoplastic therapeutics are well known and include: aminoglutethimide, azathioprine, bleomycin sulfate, busulfan, carmustine, chlorambucil, cisplatin, cyclophosphamide, cyclosporine, cytarabidine, dacarbazine, dactinomycin, daunorubicin, doxorubicin, taxol, etoposide, fluorouracil, interferon-α, lomustine, mercaptopurine, methotrexate, mitotane, procarbazine HCl, thioguanine, vinblastine sulfate and vincristine sulfate. Additional antineoplastic agents include those disclosed in Chapter 52, Antineoplastic Agents (Paul Calabresi and Bruce A. Chabner), and the introduction thereto, 1202-1263, of Goodman and Gilman's "The Pharmacological Basis of Therapeutics", Eighth Edition, 1990, McGraw-Hill, Inc. (Health Professions Division). Toxins can be proteins such as, for example, pokeweed anti-viral protein, cholera toxin, pertussis toxin, ricin, gelonin, abrin, diphtheria exotoxin, or Pseudomonas exotoxin. Toxin moieties can also be high energy-emitting radionuclides such as cobalt-60.

10

20

25

30

In the foregoing methods, antibodies prepared according to the invention also preferably are specific for the cancer associated antigen/MHC complexes described herein.

When "disorder" is used herein, it refers to any pathological condition where the cancer associated antigens are expressed. An example of such a disorder is cancer, breast, colon, gastric, renal, prostate and lung cancers as particular examples.

5

. 10

15

.20

25

Samples of tissue and/or cells for use in the various methods described herein can be obtained through standard methods such as tissue biopsy, including punch biopsy and cell scraping, and collection of blood or other bodily fluids by aspiration or other methods.

In certain embodiments of the invention, an immunoreactive cell sample is removed from a subject. By "immunoreactive cell" is meant a cell which can mature into an immune cell (such as a B cell, a helper T cell, or a cytolytic T cell) upon appropriate stimulation. Thus immunoreactive cells include CD34⁺ hematopoietic stem cells, immature T cells and immature B cells. When it is desired to produce cytolytic T cells which recognize a cancer associated antigen, the immunoreactive cell is contacted with a cell which expresses a cancer associated antigen under conditions favoring production, differentiation and/or selection of cytolytic T cells; the differentiation of the T cell precursor into a cytolytic T cell upon exposure to antigen is similar to clonal selection of the immune system.

Some therapeutic approaches based upon the disclosure are premised on a response by a subject's immune system, leading to lysis of antigen presenting cells, such as breast cancer cells which present one or more cancer associated antigens. One such approach is the administration of autologous CTLs specific to a cancer associated antigen/MHC complex to a subject with abnormal cells of the phenotype at issue. It is within the ability of one of ordinary skill in the art to develop such CTLs in vitro. An example of a method for T cell differentiation is presented in International Application number PCT/US96/05607. Generally, a sample of cells taken from a subject, such as blood cells, are contacted with a cell presenting the complex and capable of provoking CTLs to proliferate. The target cell can be a transfectant, such as a COS cell of the type described herein. These transfectants present the desired complex of their surface and, when combined with a CTL of interest, stimulate its proliferation. COS cells, such as those used herein are widely available, as are other suitable host cells. Specific production of a CTL clone is described herein, and is well known in the art. The clonally expanded autologous CTLs then are administered to the subject.

Another method for selecting antigen-specific CTL clones has recently been described (Altman et al., Science 274:94-96, 1996; Dunbar et al., Curr. Biol. 8:413-416, 1998), in which fluorogenic tetramers of MHC class I molecule/peptide complexes are used to detect specific CTL 30 clones. Briefly, soluble MHC class I molecules are folded in vitro in the presence of β_2 - microglobulin and a peptide antigen which binds the class I molecule. After purification, the MHC/peptide complex is purified and labeled with biotin. Tetramers are formed by mixing the biotinylated peptide-MHC complex with labeled avidin (e.g. phycoerythrin) at a molar ratio or 4:1. Tetramers are then contacted with a source of CTLs such as peripheral blood or lymph node. The tetramers bind CTLs which recognize the peptide antigen/MHC class I complex. Cells bound by the tetramers can be sorted by fluorescence activated cell sorting to isolate the reactive CTLs. The isolated CTLs then can be expanded *in vitro* for use as described herein.

To detail a therapeutic methodology, referred to as adoptive transfer (Greenberg, J. Immunol. 136(5): 1917, 1986; Riddel et al., Science 257: 238, 1992; Lynch et al, Eur. J. Immunol. 21: 1403-1410,1991; Kast et al., Cell 59: 603-614, 1989), cells presenting the desired complex are combined with CTLs leading to proliferation of the CTLs specific thereto. The proliferated CTLs are then administered to a subject with a cellular abnormality which is characterized by certain of the abnormal cells presenting the particular complex. The CTLs then lyse the abnormal cells, thereby achieving the desired therapeutic goal.

10

15

20

The foregoing therapy assumes that at least some of the subject's abnormal cells present the relevant HLA cancer associated antigen complex. This can be determined very easily, as the art is very familiar with methods for identifying cells which present a particular HLA molecule, as well as how to identify cells expressing DNA of the pertinent sequences, in this case a cancer associated antigen sequence. Once cells presenting the relevant complex are identified via the foregoing screening methodology, they can be combined with a sample from a patient, where the sample contains CTLs. If the complex presenting cells are lysed by the mixed CTL sample, then it can be assumed that a cancer associated antigen is being presented, and the subject is an appropriate candidate for the therapeutic approaches set forth *supra*.

Adoptive transfer is not the only form of therapy that is available in accordance with the

invention. CTLs can also be provoked *in vivo*, using a number of approaches. One approach is the
use of non-proliferative cells expressing the complex. The cells used in this approach may be those
that normally express the complex, such as irradiated tumor cells or cells transfected with one or
both of the genes necessary for presentation of the complex (i.e. the antigenic peptide and the
presenting HLA molecule). Chen et al. (*Proc. Natl. Acad. Sci. USA* 88: 110-114,1991) exemplifies

this approach, showing the use of transfected cells expressing HPVE7 peptides in a therapeutic

regime. Various cell types may be used. Similarly, vectors carrying one or both of the genes of interest may be used. Viral or bacterial vectors are especially preferred. For example, nucleic acids which encode a breast cancer associated antigen polypeptide or peptide may be operably linked to promoter and enhancer sequences which direct expression of the cancer associated antigen polypeptide or peptide in certain tissues or cell types. The nucleic acid may be incorporated into an expression vector. Expression vectors may be unmodified extrachromosomal nucleic acids, plasmids or viral genomes constructed or modified to enable insertion of exogenous nucleic acids, such as those encoding cancer associated antigen, as described elsewhere herein. Nucleic acidsencoding a cancer associated antigen also may be inserted into a retroviral genome, thereby facilitating integration of the nucleic acid into the genome of the target tissue or cell type. In these systems, the gene of interest is carried by a microorganism, e.g., a Vaccinia virus, retrovirus or adenovirus, and the materials de facto "infect" host cells. The cells which result present the complex of interest, and are recognized by autologous CTLs, which then proliferate.

10

15

25

A similar effect can be achieved by combining the cancer associated antigen or a stimulatory fragment thereof with an adjuvant to facilitate incorporation into antigen presenting cells in vivo. The breast cancer associated antigen polypeptide is processed to yield the peptide partner of the to be a second of the to be a seco HIA molecule while a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer associated antigen peptide may be presented without the need for a cancer as further processing. Generally, subjects can receive an intradermal injection of an effective amount of the cancer associated antigen. Initial doses can be followed by booster doses, following immunization protocols standard in the art. Preferred cancer associated antigens include those found to react with allogeneic cancer antisera, such as the nucleic acids (and encoded polypeptides and peptides) of SEQ ID NO:31,33 and 34 and others, for example, shown in the examples below.

The invention involves the use of various materials disclosed herein to "immunize" subjects or as "vaccines". As used herein, "immunization" or "vaccination" means increasing or activating an immune response against an antigen. It does not require elimination or eradication of a condition but rather contemplates the clinically favorable enhancement of an immune response toward an antigen. Generally accepted animal models can be used for testing of immunization against breast cancer using a cancer associated antigen nucleic acid. For example, cancer cells can be introduced into a mouse to create a tumor, and one or more cancer associated antigen nucleic acids can be delivered by the methods described herein. The effect on the cancer cells (e.g., reduction-of-tumorsize) can be assessed as a measure of the effectiveness of the cancer associated antigen nucleic acid immunization. Of course, testing of the foregoing animal model using more conventional methods for immunization include the administration of one or more cancer associated antigen polypeptides or peptides derived therefrom, optionally combined with one or more adjuvants and/or cytokines to boost the immune response. Methods for immunization, including formulation of a vaccine composition and selection of doses, route of administration and the schedule of administration (e.g. primary and one or more booster doses), are well known in the art. The tests also can be performed in humans, where the end point is to test for the presence of enhanced levels of circulating CTLs against cells bearing the antigen, to test for levels of circulating antibodies against the antigen, to test for the presence of cells expressing the antigen and so forth.

10

1 37 .

As part of the immunization compositions, one or more cancer associated antigens or stimulatory fragments thereof are administered with one or more adjuvants to induce an immune response or to increase an immune response. An adjuvant is a substance incorporated into or administered with antigen which potentiates the immune response. Adjuvants may enhance the immunological response by providing a reservoir of antigen (extracellularly or within macrophages), activating macrophages and stimulating specific sets of lymphocytes. Adjuvants of many kinds are well known in the art. Specific examples of adjuvants include monophosphoryl lipid A (MPL) SmithKline Beecham), a congener obtained after purification and acid hydrolysis of Salmonella minnesota Re 595 lipopolysaccharide; saponins including QS21 (SmithKline Beecham), a pure QA-21 saponin purified from Quillja saponaria extract; DQS21, described in PCT application WO96/33739 (SmithKline Beecham); QS-7, QS-17, QS-18, and QS-L1 (So et al., Mol. Cells 7:178-186, 1997); incomplete Freund's adjuvant; complete Freund's adjuvant; montanide; and various water-in-oil emulsions prepared from biodegradable oils such as squalene and/or tocopherol. Preferably, the peptides are administered mixed with a combination of DQS21/MPL. The ratio of DQS21 to MPL typically will be about 1:10 to 10:1, preferably about 1:5 to 5:1 and more preferably about 1:1. Typically for human administration, DQS21 and MPL will be present in a vaccine formulation in the range of about 1 µg to about 100 µg. Other adjuvants are known in the art and can be used in the invention (see, e.g. Goding, Monoclonal Antibodies: Principles and Practice, 2nd Ed., 1986). Methods for the preparation of mixtures or emulsions of peptide and adjuvant are well 30 known to those of skill in the art of vaccination.

Other agents which stimulate the immune response of the subject can also be administered to the subject. For example, other cytokines are also useful in vaccination protocols as a result of their lymphocyte regulatory properties. Many other cytokines useful for such purposes will be known to one of ordinary skill in the art, including interleukin-12 (IL-12) which has been shown to enhance the protective effects of vaccines (see, e.g., Science 268: 1432-1434, 1995), GM-CSF and IL-18. Thus cytokines can be administered in conjunction with antigens and adjuvants to increase the immune response to the antigens.

There are a number of immune response potentiating compounds that can be used in vaccination protocols. These include costimulatory molecules provided in either protein or nucleic acid form. Such costimulatory molecules include the B7-1 and B7-2 (CD80 and CD86 respectively) molecules which are expressed on dendritic cells (DC) and interact with the CD28 molecule expressed on the T cell. This interaction provides costimulation (signal 2) to an antigen/MHC/TCR stimulated (signal 1) T cell, increasing T cell proliferation and effector function. B7 also interacts with CTLA4 (CD152) on T cells and studies involving CTLA4 and B7 ligands indicate that the B7-CTLA4 interaction can enhance antitumor immunity and CTL proliferation, Zheng P., et al. PNAS 95 (11) 6284-6289 (1998).

10

15

20

25

B7 typically is not expressed on tumor cells so they are not efficient antigen presenting cells (APCs) for T cells. Induction of B7 expression would enable the tumor cells to stimulate more efficiently CTL proliferation and effector function. A combination of B7/IL-6/IL-12 costimulation has been shown to induce IFN-gamma and a Th1 cytokine profile in the T cell population leading to further enhanced T cell activity, Gajewski et al., *J. I mmunol*, 154:5637-5648 (1995). Tumor cell transfection with B7 has ben discussed in relation to *in vitro* CTL expansion for adoptive transfer immunotherapy by Wang et al., J Immunol, 19:1-8 (1986). Other delivery mechanisms for the B7 molecule would include nucleic acid (naked DNA) immunization Kim J., et al. *Nat Biotechnol.*, 15:7:641-646 (1997) and recombinant viruses such as adeno and pox (Wendtner et al., *Gene Ther*, 4:7:726-735 (1997)). These systems are all amenable to the construction and use of expression cassettes for the coexpression of B7 with other molecules of choice such as the antigens or fragment(s) of antigens discussed herein (including polytopes) or cytokines. These delivery systems can be used for induction of the appropriate molecules *in vitro* and *for in vivo* vaccination situations. The use of anti-CD28 antibodies to directly stimulate T cells *in vitro* and *in vivo* could also be—

4324

considered.

10

15

20

25

Lymphocyte function associated antigen-3 (LFA-3) is expressed on APCs and some tumor cells and interacts with CD2 expressed on T cells. This interaction induces T cell IL-2 and IFNgamma production and can thus complement but not substitute, the B7/CD28 costimulatory interaction, Parra et al., J. Immunol., 158:637-642 (1997), Fenton et al., J. Immunother, 21:2:95-108 (1989).

Lymphocyte function associated antigen-1 (LFA-1) is expressed on leukocytes and interacts with ICAM-1-expressed on APCs and some tumor cells. This interaction induces T cell-IL-2 and IFN-gamma production and can thus complement but not substitute, the B7/CD28 costimulatory interaction, Fenton et al., J. Immunothera, 21:2:95-108 (1998). LFA-1 is thus a further example of a costimulatory molecule that could be provided in a vaccination protocol in the various ways discussed above for B7.

Complete CTL activation and effector function requires Th cell help through the interaction between the Th cell CD40L (CD40 ligand) molecule and the CD40 molecule expressed by DCS, Ridge et al., Nature, 393:474 (1998), Bennett et al., Nature, 393:478 (1998), Schoenberger et al., Nature, 393:480 (1998). This mechanism of this costimulatory signal is likely to involve to the second seco upregulation of B7 and associated IL-6/IL-12 production by the DC (APC). The CD40-CD40Legisted in the control of the control o interaction thus complements the signal 1 (antigen/MHC-TCR) and signal 2 (B7-CD28) interactions in the signal 1 (antigen/MHC-TCR) and signal 2 (B7-CD28) interactions in the signal 3 (B7-CD28) interaction in the signal 3 (B7-CD28) interact

The use of anti-CD40 antibodies to stimulate DC cells directly, would be expected to enhance a response to tumor antigens which are normally encountered outside of a inflammatory context or are presented by non-professional APCs (tumor cells). In these situations Th help and B7 costimulation signals are not provided. This mechanism might be used in the context of antigen pulsed DC based therapies or in situations where Th epitopes have not been defined within known TRA precursors.

A cancer associated antigen polypeptide, or a fragment thereof, also can be used to isolate their native binding partners. Isolation of such binding partners may be performed according to well-known methods. For example, isolated cancer associated antigen polypeptides can be attached to a substrate (e.g., chromatographic media, such as polystyrene beads, or a filter), and then a solution suspected of containing the binding partner may be applied to the substrate. If a binding 30 partner which can interact with cancer associated antigen polypeptides is present in the solution,

then it will bind to the substrate-bound cancer associated antigen polypeptide. The binding partner then may be isolated.

It will also be recognized that the invention embraces the use of the cancer associated antigen cDNA sequences in expression vectors, as well as to transfect host cells and cell lines, be these prokaryotic (e.g., *E. coli*), or eukaryotic (e.g., dendritic cells, B cells, CHO cells, COS cells, yeast expression systems and recombinant baculovirus expression in insect cells). Especially useful are mammalian cells such as human, mouse, hamster, pig, goat, primate, etc. They may be of a wide variety of tissue types, and include primary cells and cell lines. Specific examples include keratinocytes, peripheral blood leukocytes, bone marrow stem cells and embryonic stem cells. The expression vectors require that the pertinent sequence, i.e., those nucleic acids described *supra*, be operably linked to a promoter.

10

15

virtue (1057)

STANCTON OF THE

20

25

The invention also contemplates delivery of nucleic acids, polypeptides or peptides for vaccination. Delivery of polypeptides and peptides can be accomplished according to standard vaccination protocols which are well known in the art. In another embodiment, the delivery of nucleic acid is accomplished by *ex vivo* methods, i.e. by removing a cell from a subject, genetically engineering the cell to include a breast cancer associated antigen, and reintroducing the engineered cell into the subject. One example of such a procedure is outlined in U.S. Patent 5,399,346 and in exhibits submitted in the file history of that patent, all of which are publicly available documents. In general, it involves introduction *in vitro* of a functional copy of a gene into a cell(s) of a subject, and returning the genetically engineered cell(s) to the subject. The functional copy of the gene is under operable control of regulatory elements which permit expression of the gene in the genetically engineered cell(s). Numerous transfection and transduction techniques as well as appropriate expression vectors are well known to those of ordinary skill in the art, some of which are described in PCT application WO95/00654. *In vivo* nucleic acid delivery using vectors such as viruses and targeted liposomes also is contemplated according to the invention.

In preferred embodiments, a virus vector for delivering a nucleic acid encoding a cancer associated antigen is selected from the group consisting of adenoviruses, adeno-associated viruses, poxviruses including vaccinia viruses and attenuated poxviruses, Semliki Forest virus, Venezuelan equine encephalitis virus, retroviruses, Sindbis virus, and Ty virus-like particle. Examples of viruses and virus-like particles which have been used to deliver exogenous nucleic acids include:

10

*** ** **

20

25

replication-defective adenoviruses (e.g., Xiang et al., Virology 219:220-227, 1996; Eloit et al., J. Virol 7:5375-5381, 1997; Chengalvala et al., Vaccine 15:335-339, 1997), a modified retrovirus (Townsend et al., J. Virol. 71:3365-3374, 1997), a nonreplicating retrovirus (Irwin et al., J. Virol. 68:5036-5044, 1994), a replication defective Semliki Forest virus (Zhao et al., Proc. Natl. Acad. Sci. USA 92:3009-3013, 1995), canarypox virus and highly attenuated vaccinia virus derivative (Paoletti, Proc. Natl. Acad. Sci. USA 93:11349-11353, 1996), non-replicative vaccinia virus (Moss, Proc. Natl. Acad. Sci. USA 93:11341-11348, 1996), replicative vaccinia virus (Moss, Dev. Biol. Stand. 82:55-63, 1994), Venzuelan equine encephalitis virus (Davis et al., J. Virol. 70:3781-3787, 1996), Sindbis virus (Pugachev et al., Virology 212:587-594, 1995), and Ty virus-like particle (Allsopp et al., Eur J. Immunol 26:1951-1959, 1996). In preferred embodiments, the virus vector is an adenovirus.

Another preferred virus for certain applications is the adeno-associated virus, a doublestranded DNA virus. The adeno-associated virus is capable of infecting a wide range of cell types and species and can be engineered to be replication-deficient. It further has advantages, such as heat and lipid solvent stability, high transduction frequencies in cells of diverse lineages, including hematopoietic cells, and lack of superinfection inhibition thus allowing multiple series of transductions. The adeno-associated virus can integrate into humanicellular DNA in a site-specific manner, thereby minimizing the possibility of insertional mutagenesis and variability of inserted gene expression. In addition, wild-type adeno-associated virus infections have been followed in tissue culture for greater than 100 passages in the absence of selective pressure, implying that the adeno-associated virus genomic integration is a relatively stable event. The adeno-associated virus can also function in an extrachromosomal fashion.

In general, other preferred viral vectors are based on non-cytopathic eukaryotic viruses in which non-essential genes have been replaced with the gene of interest. Non-cytopathic viruses include retroviruses, the life cycle of which involves reverse transcription of genomic viral RNA into DNA with subsequent proviral integration into host cellular DNA. Adenoviruses and retroviruses have been approved for human gene therapy trials. In general, the retroviruses are replication-deficient (i.e., capable of directing synthesis of the desired proteins, but incapable of manufacturing an infectious particle). Such genetically altered retroviral expression vectors have general utility for the high-efficiency transduction of genes in vivo. Standard-protocols for

producing replication-deficient retroviruses (including the steps of incorporation of exogenous genetic material into a plasmid, transfection of a packaging cell lined with plasmid, production of recombinant retroviruses by the packaging cell line, collection of viral particles from tissue culture media, and infection of the target cells with viral particles) are provided in Kriegler, M., "Gene Transfer and Expression, A Laboratory Manual," W.H. Freeman C.O., New York (1990) and Murry, E.J. Ed. "Methods in Molecular Biology," vol. 7, Humana Press, Inc., Cliffton, New Jersey (1991).

Preferably the foregoing nucleic acid delivery vectors: (1) contain exogenous genetic material that can be transcribed and translated in a mammalian cell and that can induce an immune response in a host, and (2) contain on a surface a ligand that selectively binds to a receptor on the surface of a target cell, such as a mammalian cell, and thereby gains entry to the target cell.

10

15

20

25

Various techniques may be employed for introducing nucleic acids of the invention into cells, depending on whether the nucleic acids are introduced in vitro or in vivo in a host. Such techniques include transfection of nucleic acid-CaPO₄ precipitates, transfection of nucleic acids associated with DEAE, transfection or infection with the foregoing viruses including the nucleic acid of interest, liposome mediated transfection, and the like. For certain uses, it is preferred to target the nucleic acid to particular cells. In such instances, a vehicle used for delivering a nucleic acid of the invention into a cell (e.g., a retrovirus, or other virus, a liposome) can have a targeting molecule attached thereto. For example, a molecule such as an antibody specific for a surface membrane protein on the target cell or a ligand for a receptor on the target cell can be bound to or incorporated within the nucleic acid delivery vehicle. Preferred antibodies include antibodies which selectively bind a cancer associated antigen, alone or as a complex with a MHC molecule. Especially preferred are monoclonal antibodies. Where liposomes are employed to deliver the nucleic acids of the invention, proteins which bind to a surface membrane protein associated with endocytosis may be incorporated into the liposome formulation for targeting and/or to facilitate uptake. Such proteins include capsid proteins or fragments thereof tropic for a particular cell type, antibodies for proteins which undergo internalization in cycling, proteins that target intracellular localization and enhance intracellular half life, and the like. Polymeric delivery systems also have been used successfully to deliver nucleic acids into cells, as is known by those skilled in the art. Such systems even permit oral delivery of nucleic acids.

30 When administered, the therapeutic compositions of the present invention can be

administered in pharmaceutically acceptable preparations. Such preparations may routinely contain pharmaceutically acceptable concentrations of salt, buffering agents, preservatives, compatible carriers, supplementary immune potentiating agents such as adjuvants and cytokines and optionally other therapeutic agents.

5

10

20

25

The therapeutics of the invention can be administered by any conventional route, including injection or by gradual infusion over time. The administration may, for example, be oral, intravenous, intraperitoneal, intramuscular, intracavity, subcutaneous, or transdermal. When antibodies are used therapeutically, a preferred route of administration is by pulmonary aerosol. Techniques for preparing aerosol delivery systems containing antibodies are well known to those of skill in the art. Generally, such systems should utilize components which will not significantly impair the biological properties of the antibodies, such as the paratope binding capacity (see, for example, Sciarra and Cutie, "Aerosols," in Remington's Pharmaceutical Sciences, 18th edition, 1990, pp 1694-1712; incorporated by reference). Those of skill in the art can readily determine the various parameters and conditions for producing antibody aerosols without resort to undue 15 experimentation. When using antisense preparations of the invention, slow intravenous CONTRACTOR OF THE STATE OF THE administration is preferred.

The compositions of the invention are administered in effective amounts. An "effective coats are administered in effective amounts." amount is that amount of a cancer associated antigen composition that alone, or together with instance and the further doses, produces the desired response, e.g. increases an immune response to the cancer associated antigen. In the case of treating a particular disease or condition characterized by expression of one or more cancer associated antigens, such as cancer, the desired response is inhibiting the progression of the disease. This may involve only slowing the progression of the disease temporarily, although more preferably, it involves halting the progression of the disease permanently. This can be monitored by routine methods or can be monitored according to diagnostic methods of the invention discussed herein. The desired response to treatment of the disease or condition also can be delaying the onset or even preventing the onset of the disease or condition.

Such amounts will depend, of course, on the particular condition being treated, the severity of the condition, the individual patient parameters including age, physical condition, size and weight, the duration of the treatment, the nature of concurrent therapy (if any), the specific route of

administration and like factors within the knowledge and expertise of the health practioner. These factors are well known to those of ordinary skill in the art and can be addressed with no more than routine experimentation. It is generally preferred that a maximum dose of the individual components or combinations thereof be used, that is, the highest safe dose according to sound medical judgment. It will be understood by those of ordinary skill in the art, however, that a patient may insist upon a lower dose or tolerable dose for medical reasons, psychological reasons or for virtually any other reasons.

The pharmaceutical compositions used in the foregoing methods preferably are sterile and contain an effective amount of breast cancer associated antigen or nucleic acid encoding cancer associated antigen for producing the desired response in a unit of weight or volume suitable for administration to a patient. The response can, for example, be measured by determining the immune response following administration of the cancer associated antigen composition via a reporter system as described herein, by measuring downstream effects such as gene expression, or by measuring the physiological effects of the breast cancer associated antigen composition, such as regression of a tumor or decrease of disease symptoms. Other assays will be known to one of ordinary skill in the art and can be employed for measuring the level of the response.

10

15

20

25

The doses of cancer associated antigen compositions (e.g., polypeptide, peptide, antibody, cell or nucleic acid) administered to a subject can be chosen in accordance with different parameters, in particular in accordance with the mode of administration used and the state of the subject. Other factors include the desired period of treatment. In the event that a response in a subject is insufficient at the initial doses applied, higher doses (or effectively higher doses by a different, more localized delivery route) may be employed to the extent that patient tolerance permits.

In general, for treatments for eliciting or increasing an immune response, doses of cancer associated antigen are formulated and administered in doses between 1 ng and 1 mg, and preferably between 10 ng and 100 μ g, according to any standard procedure in the art. Where nucleic acids encoding cancer associated antigen of variants thereof are employed, doses of between 1 ng and 0.1 mg generally will be formulated and administered according to standard procedures. Other protocols for the administration of cancer associated antigen compositions will be known to one of ordinary skill in the art, in which the dose amount, schedule of injections, sites of injections, mode of 30 administration (e.g., intra-tumoral) and the like vary from the foregoing. Administration of cancer

associated antigen compositions to mammals other than humans, e.g. for testing purposes or veterinary therapeutic purposes, is carried out under substantially the same conditions as described above.

As part of the immunization compositions, the peptide antigens are administered with one or more adjuvants to induce an immune response or to increase an immune response. An adjuvant is a substance incorporated into or administered with antigen which potentiates the immune response. Adjuvants may enhance the immunological response by providing a reservoir of antigen (extracellularly or within macrophages), activating macrophages and stimulating specific sets of lymphocytes. Adjuvants of many kinds are well known in the art. Specific examples of adjuvants include monophosphoryl lipid A (MPL, SmithKline Beecham), a congener obtained after purification and acid hydrolysis of Salmonella minnesota Re 595 lipopolysaccharide; saponins including QS21 (SmithKline Beecham), a pure QA-21 saponin purified from Quillja saponaria extract; DQS21, described in PCT application WO96/33739 (SmithKline Beecham); OS-7, OS-17. OS-18, and OS-L1 (So et al., Mol. Cells 7:178-186, 1997); incomplete Freund's adjuvant; complete Freund's adjuvant; montanide; and various water-in-oil emulsions prepared from biodegradable oils such as squalene and/or tocopherol. Other adjuvants are known in the art and can be used in the invention (see, e.g. Goding, Monoclonal Antibodies: Principles and Practice, 2nd Ed., 1986). Methods for the preparation of mixtures or emulsions of peptide and adjuvant are well known to those of skill in the art of vaccination.

15

20

Where cancer associated antigen peptides are used for vaccination, modes of administration which effectively deliver the cancer associated antigen and adjuvant, such that an immune response to the antigen is increased, can be used. For administration of a cancer associated antigen peptide in adjuvant, preferred methods include intradermal, intravenous, intramuscular and subcutaneous administration. Although these are preferred embodiments, the invention is not limited by the particular modes of administration disclosed herein. Standard references in the art (e.g., Remington's Pharmaceutical Sciences, 18th edition, 1990) provide modes of administration and formulations for delivery of immunogens with adjuvant or in a non-adjuvant carrier.

When administered, the pharmaceutical preparations of the invention are applied in pharmaceutically-acceptable amounts and in pharmaceutically-acceptable compositions. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the

effectiveness of the biological activity of the active ingredients. Such preparations may routinely contain salts, buffering agents, preservatives, compatible carriers, and optionally other therapeutic agents. When used in medicine, the salts should be pharmaceutically acceptable, but non-pharmaceutically acceptable salts may conveniently be used to prepare pharmaceutically—acceptable salts thereof and are not excluded from the scope of the invention. Such pharmacologically and pharmaceutically-acceptable salts include, but are not limited to, those prepared from the following acids: hydrochloric, hydrobromic, sulfuric, nitric, phosphoric, maleic, acetic, salicylic, citric, formic, malonic, succinic, and the like. Also, pharmaceutically-acceptable salts can be prepared as alkaline metal or alkaline earth salts, such as sodium, potassium or calcium salts.

5

10

15

20

25

30

A breast cancer associated antigen composition may be combined, if desired, with a pharmaceutically-acceptable carrier. The term "pharmaceutically-acceptable carrier" as used herein means one or more compatible solid or liquid fillers, diluents or encapsulating substances which are suitable for administration into a human. The term "carrier" denotes an organic or inorganic ingredient, natural or synthetic, with which the active ingredient is combined to facilitate the application. The components of the pharmaceutical compositions also are capable of being co-mingled with the molecules of the present invention, and with each other, in a manner such that there is no interaction which would substantially impair the desired pharmaceutical efficacy.

The pharmaceutical compositions may contain suitable buffering agents, including: acetic acid in a salt; citric acid in a salt; boric acid in a salt; and phosphoric acid in a salt.

The pharmaceutical compositions also may contain, optionally, suitable preservatives, such as: benzalkonium chloride; chlorobutanol; parabens and thimerosal.

The pharmaceutical compositions may conveniently be presented in unit dosage form and may be prepared by any of the methods well-known in the art of pharmacy. All methods include the step of bringing the active agent into association with a carrier which constitutes one or more accessory ingredients. In general, the compositions are prepared by uniformly and intimately bringing the active compound into association with a liquid carrier, a finely divided solid carrier, or both, and then, if necessary, shaping the product.

Compositions suitable for oral administration may be presented as discrete units, such as

capsules, tablets, lozenges, each containing a predetermined amount of the active compound. Other compositions include suspensions in aqueous liquids or non-aqueous liquids such as a syrup, elixir or an emulsion.

Compositions suitable for parenteral administration conveniently comprise a sterile aqueous or non-aqueous preparation of breast cancer associated antigen polypeptides or nucleic 5 acids, which is preferably isotonic with the blood of the recipient. This preparation may be formulated according to known methods using suitable dispersing or wetting agents and suspending agents. The sterile injectable preparation also may be a sterile injectable solution or suspension in a non-toxic parenterally-acceptable diluent or solvent, for example, as a solution in 1,3-butane diol. Among the acceptable vehicles and solvents that may be employed are water. 10 Ringer's solution, and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil may be employed including synthetic mono-or di-glycerides. In addition, fatty acids such as oleic acid may be used in the preparation of injectables. Carrier formulation suitable for oral, subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's and the subcutaneous are subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's and the subcutaneous are subcutaneous. 15 Pharmaceutical Sciences, Mack Publishing Co., Easton, PA. 2. 主题的。如此数数数据数数据数据。

Examples

·新国共产业公司

Example 1: Preparation of breast cancer cDNA expression libraries

Step 1: Purification of total RNA from tumors.

Total RNA was isolated from tumor samples using the guanidium thiocyanate-phenol-chloroform extraction protocol described by Chomczynski and Sacci (*Anal. Biochem.* 162:156-159, 1987).

Step 2: Purification of mRNA.

A Dynabeads mRNA isolation kit (Dynal, Cat.No. 610.01) was used to isolate mRNA from the pool of total RNA isolated in step 1 above according to the manufacturer's instructions.

Step 3: cDNA synthesis.

20

25

30

cDNA synthesis was performed using a ZAP-cDNA synthesis Kit (Stratagene, La Jolla CA; Cat. No. 200400) according to the manufacturer's protocol. A specific linker-primer which contains a XbaI cloning site was designed and used in this protocol, to facilitate subcloning into TriplEx

vector. The sequence of the primer was:

Step 4: Ligation into the TriplEx vector arms.

The cDNAs generated in step 3 above were ligated into TriplEx vector arms (Clontech, Palo Alto, CA; Cat. No. 6162-1); the arms were predigested with EcoR I/Xba I.

Step 5: Packaging into phages with Gigapack III kit.

The ligation mix (TriplEx/cDNA) from step 4 was packed into phages using the Gigapack III Gold Cloning Kit (Stratagene, Cat. N.200450) according to the protocol supplied with the kit.

Step 6: Titering and amplification of generated libraries was performed according to the Stratagene protocols.

The foregoing protocol was used to prepare several libraries from tumor sample of different patients. Some libraries were prepared using the UNI-ZAP XR vector system (Stratagene) according to the manufacturer's protocol, and some using the TriplEx system as described above.

s the late without to the common to the

AND MAIN TO SERVEY AND A SECURITION OF THE SERVEY OF THE

Table 2

5

10

La Server de

20

25

UNI-ZAP Libraries		to the control of the section of the		
Code for tumors Titer of the library		Histopathological diagnosis		
HBR173	1.8 x 10 ⁶ pfu	Ductal Carcinoma, Grade III		
HBR184	3.5 x 10 ⁶ pfu	Invasive Ductal Carcinoma, Grade II		
TriplEx libraries				
Code for tumors	Titer of the library	Histopoathological diagnosis		
HBR173 2.3 x 10 ⁶ pfu		Ductal Carcinoma, Grade III		
HBR184	$1.1 \times 10^6 \text{pfu}$	Ivasive Ductal Carcinoma, Grade II		
HBR257	2.5 x 10 ⁶ pfu	Invasive Ductal Carcinoma, Grade II		
HBR297 4.0 x 10 ⁶ pfu		Ductal Carcinoma, Grade II		
HBR248	1.0 x 10 ⁶ pfu	Invasive Ductal Carcinoma with		
. <u> </u>		Vascular Permeation, Grade III		

HBR271	2.5 x 10 ⁶ pfu	Medullary Carcimoma	
HBR263	10.0 x 10 ⁶ pfu	Inv. Pleiomorphic Lobular Carcinoma	
		Grade II	

All libraries were screened with the exception of HBR173 (no autologous serum). No serum-positive clones were found by screening HBR271 library.

Example 2: Immunoscreening

Sera was obtained from donors undergoing routine diagnostic and therapeutic procedures. It was stored at - 70°C prior to absorption. Sera, at a dilution of 1:10 in Tris buffered saline (TBS, pH 7.5), was sequentially passed through Sepharose 4B columns which had been coupled to lysates from E. coli Y1090 and bacteriophage infected E. coli BNN97 (5 Prime 3 Prime, Inc. Boulder, Co.). Final serum dilutions were prepared in 0.2% non-fat dried milk/TBS (NFDM) and stored at 4°C. Library screening was performed as described by Sahin et al. (Proc. Natl. Acad. Sci. USA 92:11810-11813, 1995) with following modifications. Recombinant phage at a concentration of 4 x 103 per 15 cm plate were amplified for 6 hours and transferred to nitrocellulose membranes for an object to the second se additional 15 hours at 37°C. Membranes were then blocked with 5% NFDM. As an alternative to generation of IgG subtracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries, membranes were pre-screened in a 1:2000 dilution of the contracted libraries and the contracted l peroxidase conjugated. Fc fragment specific, goat anti-human IgG (Jackson Immunoresearch and a second secon Laboratories Inc., West Grove, PA) for 1 hour at room temperature. Color was developed with 3,3' diaminobenzidine tetrahydrochloride and IgG encoding clones were scored. Membranes were then 20 incubated in a 1:100 dilution of absorbed autologous sera for 15 hours at room temperature. Following serum exposure, filters were incubated in a 1:3000 dilution of alkaline phosphatase conjugated, Fc fragment specific, goat anti-human IgG (Jackson Immunoresearch Laboratories Inc.) for 1 hour at room temperature and processed for 4-nitro blue tetrazolium chloride/5-bromo-4-chloro- 3-indolyl-phosphate color development. Serum positive clones were 25 subcloned and retested for serum reactivity as above except nitrocellulose transfer was decreased to 3 hours. For the determination of allogeneic serum reactivity, plates containing an equal number of serum positive clones and negative control plaques were similarly processed less the IgG prescreening steps. A minimum of 5 x 10⁵ recombinants were screened per cDNA library, a number

which approximates a point at which the likelihood of repeat isolations of previously identified clones outweigh the prospect of identifying new clones.

Example 3: DNA Sequencing

. 15

20

25

Phage cDNA clones were converted to pBKCMV phagemid forms by in vivo excision.

Plasmid DNA was purified on Qiaprep spin columns (Qiagen Inc. Chatsworth, CA) and subjected to EcoRI/XbaI restriction enzyme digestion. Clones representing different cDNA inserts were sequenced at Cornell University DNA services (Ithaca, NY) using an ABI Prism (Perkin Elmer) automated DNA sequencer. The sequences of the clones were compared with sequences in

GenBank and HGI databases to detect homologous nucleic acid and/or protein sequences. The following table lists exemplary related sequences.

Table 3: Sequences Related to Breast Cancer Associated Antigen Clones

Clone	Nucleotide	Clone	Nucleotide	Clone	Nucleotide
į. ·	Homology		Homology		Homology
LONY-Br-1	L34543	LONY-Br-23	AA262134,	LONY-Br-44	D15057
the spirit is the		·	U74628	egik megik olon	a saayeya kabiga ka da
LONY-Br-2	S75417	LONY-Br-24	AA282633	LONY-Br-45	AB000815
LONY-Br-3	J05211	LONY-Br-25	M62324	LONY-Br-46	L04733
LONY-Br-4	X15187	LONY-Br-26	M99389	LONY-Br-47	X88791
LONY-Br-5	X62083	LONY-Br-27	X79389	LONY-Br-48	AF000430
LONY-Br-6	J04965	LONY-Br-28	.D44466	LONY-Br-49	none
LONY-Br-7	D63784	LONY-Br-29	M33197	LONY-Br-50	AA226732
LONY-Br-8	U11292	LONY-Br-30	M17886	LONY-Br-51	AA046574
LONY-Br-9	HSB06D102	LONY-Br-31	L38941	LONY-Br-52	none
LONY-Br-10	none .	LONY-Br-32	X17644	LONY-Br-53	AB002307
LONY-Br-11	none	LONY-Br-33	X75342	92	AA127328
LONY-Br-12	AA430998	LONY-Br-33	X75342	101	AA167314
LONY-Br-13	D83032	LONY-Br-34	U43368	102	AA508139
LONY-Br-14	AA034417	LONY-Br-35	X15882	107	none
LONY-Br-15	AA167070	LONY-Br-37	AA121558	109	AA220229

LONY-Br-16	none	LONY-Br-38	AA211771	110	W67775
LONY-Br-17	AA161103	LONY-Br-39	AA367417	111	AA280070
LONY-Br-19	R13835	LONY-Br-40	AA188052	112	AF004292
LONY-Br-20	HUMORF003-	LONY-Br-41	- THC83518	. 131	· - · - none ·
LONY-Br-21	S74572	LONY-Br-42	none	143	AA481578
LONY-Br-22	AA070233	LONY-Br-43	HU35246	162	AA481578

Example 4: Reverse transcriptase (RT) PCR and Rapid Amplification of cDNA Ends (RACE)

The mRNA expression pattern of selected cDNA clones was determined by RT-PCR using a panel of normal tissue RNA. This test panel consisted of lung, testis, small intestine, colon, breast, liver, and placenta, and was purchased from Clontech Laboratories Inc. (Palo Alto, CA). Colon tumor RNA was also included in this panel and was prepared as described above. As a control for genomic DNA contamination, all cDNA synthesis reactions were set up in duplicate with the additional sample lacking reverse transcriptase. Gene specific PCR primers were designed to amplify 5' fragments of 300-400 bp and were purchased commercially (Gibco BRL, Grand Island, NY). PCR reactions were undertaken at an annealing temperature of 68°C using a Perkin Elmeration thermal cycler. In certain cases, RT-PCR products were subcloned into the pCR2.1 plasmid vector in (Invitrogen) and multiple clones were subjected to DNA sequencing as described. 5' and 3' RACE reactions were undertaken using gene specific and adapter primers in conjunction with Marathon Ready normal colon cDNA and KlenTaq polymerase (Clontech) as per manufacturers protocol. Products were then subcloned into the pCR2.1 plasmid vector (Invitrogen) and screened by PCR with internal primers for presence of the desired insert. Multiple RACE clones were subjected to DNA sequencing as described.

25

30

5

10

Example 5: Northern blot analysis

Northern blots containing the transfer yields of 2 µg poly A⁺ RNA from a panel of normal tissues were obtained commercially (Clontech). Random primed ³²P labeled probes consisting of 300-600 bp PCR products from 5 prime coding sequences of serum positive cDNA clones were hybridized for 1.5 hours in Expresshyb (Clontech) at 68°C and washed at high stringency (2 times,

30 min. each, 0.1X SSC/0.1% SDS at 68°C). Resultant blots were used to expose Biomax MS autoradiography film (Eastman Kodak Co., Rochester, NY).

Table 4: Breast Cancer Associated Antigen Clone mRNA sizes

5	Clone	Size (kb)	Clone	Size (kb)	Clone	Size (kb)
	LONY-Br-1	1.8	LONY-Br-17	1.0	LONY-Br-33	2.6
	LONY-Br-2	2.9	LONY-Br-19	1.5	LONY-Br-34	2.1
	LONY-Br-3	.4.8	LONY-Br-20	2.4	LONY-Br-35	1.9
	LONY-Br-4	1.2	LONY-Br-21	2.4	LONY-Br-36	0.8
10	LONY-Br-5	0.9	LONY-Br-22	1.6	LONY-Br-37	1.0
	LONY-Br-6	1.4	LONY-Br-23	1.3	LONY-Br-38	2.2
	LONY-Br-7	1.3	LONY-Br-24	3.9	LONY-Br-39	1.9
	LONY-Br-8	0.9	LONY-Br-25	1.9	LONY-Br-40	3.4
	LONY-Br-9	6.0	LONY-Br-26	1.5	LONY-Br-41	3.9
15	LONY-Br-10	3.6	LONY-Br-27	1.2	LONY-Br-42	0.6
	LONY-Br-11	4.6	LONY-Br-28	0.5	LONY-Br-43	1.4
	LONY-Br-12	2.2	LONY-Br-29	0.6	LONY-Br-44	0.7
	LONY-Br-13	1.2	LONY-Br-30	0.8	LONY-Br-45	3:.0
	LONY-Br-14	0.8	LONY-Br-31	0.4	LONY-Br-46	3.7
20	LONY-Br-15	0.9	LONY-Br-32	2.2	LONY-Br-47	0.5
	LONY-Br-16	2.5	LONY-Br-33	2.6	LONY-Br-48	1.6

Example 6: Isolation of gastric and prostate clones

25

30

A stomach cancer cDNA library was established, using standard techniques, then the library was screened, using the SEREX methodology described supra, and set forth by Sahin et al., *Proc. Natl. Acad. Sci. USA* 92: 11810 (1995), and by Chen et al., *Proc. Natl. Acad. Sci. USA* 94: 1914 (1997), incorporated by reference in their entirety.

To be specific, total RNA was isolated by homogenizing tumor samples in 4M guanidium thiocyanate/0.5% sodium N-lauryl sarcosine/ and 25 mM EDTA followed by centrifugation in 5.7 M CsCl/25 mM sodium acetate/10 uM EDTA at 320,000 rpm. Total mRNA was removed by passing the sample over an oligo-dT cellulose column. The cDNA libraries were then constructed

by taking 5 ug of mRNA, using standard methodologies to reverse transcribe the material.

5

10

15

25

30

Libraries were prepared from four different stomach cancer patients, referred to as "SM", "CK" and "SS" and "KM" respectively. A total of 2.5x10⁶, 1.1x10⁶, and 1.7x10⁶ cDNA clones were obtained from the "SM", "CK" and "SS" individuals. Additional libraries were prepared from prostate cancer patient "OT".

The cDNA was used to construct a lambda phage library, and 500 phages were plated onto XL1-Blue MRF E. coli, and incubated for eight hours at 37°C. A nitrocellulose membrane was then placed on the plate, followed by overnight incubation. The membrane was then washed, four times, without TBS which contained 0.05% Tween, and was then immersed in TBS containing 5% non-fat dried milk. After one hour, the membrane was incubated with conjugates of peroxidase-goat anti human IgG specific for Fc portions of huma antibody (1:2000, diluted in TBS with 1% BSA. The incubation was carried out for one hour, at room temperature, and the membrane was then washed three times with TBS. Those clones which produced antibodies were visualized with 0.06%, 3,3'diamino benzidine tetrachloride, and 0.015% H₂O₂, in 50 mM Tris (pH 7.5). Any clones which produced immunoglobulin were marked, and then the membrane was washed, two further times, with TBS that contained 0.05% Tween, and then twice with "neat" TBS.

The membranes were then incubated in 1:100 diluted patient serum, overnight, at 4°C. The patient serum had been pretreated. Specifically, 5 ml samples were diluted to 10 ml with TBS containing 1% bovine serum albumin, and 0.02% Na₃N. The serum had been treated to remove antibodies to bacteriophage, by passing it through a 5 ml Sepharose column, to which a lysate of E. coli Y1090 had been attached, followed by passage over a second column which had E. coli lysate and lysate of E. coli infected with lambda bacteriophage. The screening was carried out five time. The samples were then diluted to 50 ml, and kept at -80°C, until used as described herein.

Following the overnight incubation with the membrane, the membrane was washed twice with TBS/0.05% Tween 20, and then once with TBS. A further incubation was carried out, using the protocols discussed supra, for the POD labelled antibodies.

The positive clones were then sequenced, using standard techniques. Following comparison of the sequences to information available in data banks, a total of 36 clones were resolved into known and unknown genes. In the table that follows, the "+" and "-" signs are essentially used to compare signals to each other. All were positive. Table 5, which follows, summarizes some of this

work isolation and sequencing of "SM" clones. Specifically, with reference to the first page of the table, previously identified human proteins and the nucleotide sequences, set forth in SEQ ID NOS:588-626 are known. The four molecules which follow in SEQ ID NOS:627-634 (gelsolin, zinc finger protein family, variant zinc finger motif protein goliath and homeodomain proteins), have not been identified in humans previously, although there are related molecules found in other species. Finally, with reference to Table 5, the last four moieties, i.e., prepro-α collagen, heterogeneous ribonucleoprotein D, nucleosome assembly protein 2, and NY-ESO-2/Ulsn NRP/V1 small nuclear ribonucleoprotein, are also known. Nucleotide sequences are set forth at SEQ ID NOS:635-642.

The nucleic acid molecules having the nucleotide sequences set forth at SEQ ID NOS:643-670 represent molecules for which no related sequences were found. SEQ ID NO:671 combines the sequences of SEQ ID NOS:627-630, inclusive. SEQ ID NO:672 combines SEQ ID NOS:643-656, SEQ ID NO:673 combines SEQ ID NOS:657, 659 and 662, while SEQ ID NO:674 combines SEQ ID NOS: 658, 660, 661 and 663.

SEREX analysis of clones from libraries derived from patients "CK", "SS", "KM" (all gastric cancer) and patient "OT" (prostate cancer) was carried out as described above. The nucleotide sequences of clones derived from gastric cancer patients are presented as SEQ ID NOs:176-436. The nucleotide sequences of clones derived from prostate cancer patient "OT" are presented as SEQ ID Nos:437-543.

20 Example 7: Isolation and analysis of colon clones

15

25

Colon tumor samples were obtained as surgical samples, and were frozen at -80°C until ready for use.

Total RNA was then isolated from the samples, using the guanidium thiocyanate method of Chirgwin, et al., *Biochemistry* 18: 5294-5299 (1979), incorporated by reference. The total RNA thus obtained was then purified to isolate all poly A⁺ RNA, using commercially available products designed for this purpose.

The poly A⁺ RNA was then converted into cDNA, and ligated into λ ZAP, a commercially available expression vector, according to the manufacturer's suggested protocol.

Three cDNA libraries were constructed in this way, using colorectal carcinoma samples.

A fourth library, also from colorectal carcinoma, was prepared, albeit in-a-different-way.- The

fourth library was an IgG subtraction library, prepared by using a subtraction partner, generated by PCR amplification of a cDNA clone which encoded an IgG molecule. See, e.g., Ace et al, Endocrinology 134: 1305-1309 (1994), and incorporated by reference in its entirety. IgG subtraction is done to eliminate any false, positive signals resulting from interaction of cDNA clones which encode IgG, with the IgG then interacting with the anti-human IgG used in the SEREX assay, as described herein. PCR products were biotinylated, and hybridized with denatured second strand cDNA, at 68°C for 18 hours. Biotinylated hybrid molecules were coupled to streptavidin, and then removed by phenol chloroform extraction. Any remaining cDNA was also ligated into λZAP. All libraries were amplified, prior to immunoscreening.

Immunoscreening was carried out using sera obtained from patients undergoing routine diagnostic and therapeutic procedures. The sera were stored at -70°C prior to use. Upon thawing, the sera were diluted at 1:10 in Tris buffered saline (pH 7.5), and were then passed through Sepharose 4B columns. First, the sera were passed through columns which had E. coli Y1090 lysates coupled thereto, and then lysates from bacteriophage infected E. coli BNN97 lysates. Final serum dilutions were then prepared in 0.2% non-fat dried milk/Tris buffered saline.

10

20

25

The method of Sahin et al., Proc. Natl. Acad. Sci. USA 92:11810-11813 (1995), and U.S. Patent No. 5,698,396, both of which are incorporated by reference, was used, with some modifications. Specifically, recombinant phages at a concentration of 4x10³ phages per 15 cm plate (pfus), were amplified for six hours, after which they were transferred to nitrocellulose membranes for 15 hours. The membranes then were blocked with 5% nonfat dried milk.

As an alternative to the IgG subtraction procedure discussed above, membranes were prescreened in a 1:2000 dilution of peroxidase conjugated, Fc fragment specific goat anti-human IgG, for one hour, at room temperature. Color was developed using 3,3'-diaminobenzidine tetrahydrochloride, which permitted scoring of IgG encoding clones.

Membranes were then incubated in 1:100 dilutions of autologous sera, which had been pretreated with the Sepharose 4B columns, as described supra. The filters were then incubated, in a 1:3000 dilution of alkaline phosphatase conjugated Fc fragment specific, goat anti-human IgG, for one hour, at room temperature. The indicator system 4-nitroblue tetrazolium chloride/5-bromo-4chloro-3-indolyl-phosphate was then added, and color development assessed. Any positive clones 30 were subcloned, and retested, except the time on the nitrocellulose membrane was reduced to three

hours.

10

Positive clones were isolated and sequenced according to standard procedures. The nucleotide sequences of the clones are set forth in the even numbered sequences from SEQ ID Nos:544-586. The odd numbered sequences from SEQ ID Nos:545-587 represent the translated amino acid sequences of the colon nucleic acid clones. Analysis of probes for SEQ ID NOS:544 and 546 confirmed their universal expression.

The foregoing results reflect SEREX isolation of colon cancer clones using autologous -serum. The positive clones were then rescreened, using allogeneic serum, following the same method discussed supra, in example 2, except IgG prescreening was omitted. The allogeneic sera was obtained from sixteen normal blood donors, and twenty nine patients who had been diagnosed with colorectal cancer.

The analysis with the two types of serum revealed that fourteen reacted with a subset of sera from normal and cancer patients, twenty-eight only with autologous sera, and six with both allogeneic and autologous sera. Over 60% of the allogeneic serum samples tested reacted with at least one of these positive clones. About 20% reacted with two or more.

In view of the results described above, further experiments were carried out using serum samples from patients with other forms of cancer, i.e., renal cancer (13 samples), lung cancer (23 samples), and breast cancer (10 samples). The results are set forth in Table 6 which follows:

20 Table 6: Allogeneic serotyping using colon cancer clones

Clone Number	Normal Sera	Colon Cancer	Renal Cancer	Lung Cancer	Breast Cancer
NY-Co-8	0/16	8/29	1/13	0/23	0/10
NY-Co-9	0/16	5/29	1/13	1/23	0/10
NY-Co-13	0/16	5/29	0/13	0/23	0/10
NY-Co-16	0/16	3/29	0/13	0/23	0/10
NY-Co-20	0/16	4/29	0/13	0/23	0/10
NY-Co-38	0/16	4/29	3/13	0/23	1/10

Of the six clones which were identified as being reactive with autologous and allogeneic

cancer serum, and not with normal serum, two were found to be identical to previously identified molecules (NY-Co-. Four others were found to have little or no homology to known sequences and thus are preferred allogeneic-reactive colon cancer clones. These nucleic acids and their polypeptide translations are presented as SEQ ID NOS: 544-551: SEQ-ID NO: 544/545 (NY-CO-8), SEQ ID NO: 546/547 (NY-CO-9), SEQ ID NO: 548/549 (NY-CO-16) and SEQ ID NO: 550/551 (NY-CO-38). Of twenty seven allogeneic colon cancer serum samples tested, 67% reacted with at least one of these antigens.

The expression pattern of mRNA corresponding to SEQ ID NOS:544, 546 and 550, as well as other sequences identified via the preceding examples was determined. To do this, RT-PCR was carried out on a panel of RNA samples, taken from normal tissue. The panel contained RNA of lung, testis, small intestine, colon, breast, liver and placenta tissues. The RNA was purchased from a commercial source. RNA from a colon tumor sample was also included. All samples were set up for duplicate runs, so that genomic DNA contamination could be accounted for. In the controls, no reverse transcriptase was used.

10

15

20

25

Primers were designed which were specific for the cDNA, which would amplify 5'fragments, from 300-400 base pairs in length. The PCR reactions were undertaken at an
annealing temperature of 68°C. Where appropriate, 5' and 3'-RACE reactions were undertaken,
using gene specific primers, and adapter primers, together with commercially available reagents.

Specifically, SEQ ID NOS: 546 and 550 were tested using RACE. The resulting products were
subcloned into vector pCR 2.1, screened via PCR using internal primers, and then sequenced.

SEQ ID NOS:544 and 546 were found to be amplified in all tissues tested. SEQ ID NO:550 was found in colon tumor, colon metastasis, gastric cancer, renal cancer and colon cancer cell lines Colo 204 and HT29, as well as in normal colon, small intestine, brain, stomach, testis, pancreas, liver, lung, heart, fetal brain, mammary gland, bladder, adrenal gland tissues. It is was not found in normal uterine, skeletal muscle, peripheral blood lymphocytes, placental, spleen thymus, or esophagus tissue, nor in lung cancer.

The analysis also identified differential expression of a splice variant of SEQ ID NO:550, i.e., SEQ ID NO:552. When the two sequences were compared, it was found that SEQ ID NO:550 encodes a putative protein of 652 amino acids (SEQ ID NO:551), and molecular weight of 73,337 daltons. SEQ ID NO:552, in contrast, lacks an internal 74 base pairs, corresponding to

nucleotides 1307-1380 of SEQ ID NO:550. The deletion results in formation of a stop codon at the splice function, and a putative protein of 403 amino acids (SEQ ID NO:553), and molecular weight 45,839. The missing segment results in the putative protein lacking a PEST protein degradation sequence, thereby suggesting a longer half life for this protein.

In additional experiments, primers designed not to differentiate between SEQ ID NOS: 550 and 552 resulted in almost universal amplification (placenta being the only exception). In contrast, when primers specific for SEQ ID NO:552 were used differences were seen in normal pancreatic, liver, lung, heart, fetal-brain, mammary-gland, bladder, and adrenal-gland-tissue, where there was no expression of SEQ ID NO:552 found.

5

10

Carlotte San

20

25

30

Northern blotting was also carried out for SEQ ID NOS: 544, 546, 550 and 552. These experiments employed the same commercially available RNA libraries discussed above were used.

Samples (2 ug) of polyA+ RNA were analyzed from these samples, using random, 32P labelled probes 300-360 nucleotides in length, obtained from PCR products. These probes were hybridized to the RNA, for 1.5 hours, at 68°C, followed by two washes at 0.1xSSC, 0.1% SDS. 15 68°C, for 30 minutes each time. ()

a highlight group

SEQ ID NOs:544 and 546 were again found to be universally expressed.

Further screening identified additional isoforms of SEQ ID NOS:544 and 550. These are set forth as SEQ ID NOS: 554, 556, 558 and 560. The isoform represented by SEQ ID NO:5543 (translated as SEQ ID NO:555) is a naturally occurring splice variant of SEQ ID NO:544, found in normal colon. SEQ ID NO:556 (translated as SEQ ID NO:557), which is an isoform of SEQ ID NO:550 (translated as SEQ ID NO:551), was found in brain tissue, primarily spinal chord and medulla. SEQ ID NO:558 (translated as SEQ ID NO:559), was found in normal kidney and in colon tumors, metastasized colon cancer, renal cancer, gastric cancer, and in colon cancer cell line Colo 205. It was not found in any normal tissue other than kidney.

The nucleic acid molecule whose nucleotide sequence set forth as SEQ ID NO:560 (translated as SEQ ID NO:561), is a further isoform of SEQ ID NO:552. It is similar to SEQ ID NO:558, except it contains a long nucleotide insert encoding a longer COOH terminus. It was expressed in normal bladder and kidney cells, and renal cancer cells. It was not expressed in colon cancer cells.

It is reported above that fourteen clones reacted with subsets of serum from both normal

and cancer patients, while twenty eight reacted with autologous sera only. These clones were sequenced, in accordance with standard, art recognized methods. Of the clones which reacted only with autologous sera, nine appear to be previously unidentified sequences. These are set forth as SEQ ID NOS: 562, 564, 566, 568, 570, 572, 574, 576 and 578. SEQ ID NO:562 (translated as SEQ ID NO:563) is 1445 nucleotides long, and shows some similarity to known sequences for myosin and tropomyosin. SEQ ID NO:564 (translated as SEQ ID NO:565), which is 1226 nucleotides long, contains a TPR motif. The sequence set forth in SEO ID NO:566 (translated as SEQ ID NO:567) is 1857 nucleotides long, and shows similarity to cyclophillins. The nucleotide sequence set forth in SEQ ID NO:568 (translated as SEQ ID NO:569) is 1537 nucleotides long, and shows similarity to murine gene 22A3, which has unknown function, but resembles an unconventional form of myosin, as well as an EST for heat shock inducible mRNA. As for the molecule set forth in SEQ ID NO:570 (translated as SEQ ID NO:571), it appears to resemble a nucleic targeting signal protein. SEQ ID NO: 572 (translated as SEO ID NO:573) is 604 nucleotides long, and may encode a lysosymal protein. The molecule set forth in SEO ID NO:574 (translated as SEQ ID NO:575) is 742 nucleotides long, and encodes a protein with an SH3 domain and which shows some similarity to GRB2 and human neutrophil oxidase factor. The molecule set forth in SEQ ID NO:576 (translated as SEQ ID NO:577) is 1087 nucleotides long, and encodes a protein which contains coiled core domains. The molecule set forth in SEO ID NO:578 (translated as SEQ ID NO:579) is 2569 nucleotides long, shows some similarity with Drosophila homeotic material tudor protein, and has a DY(F)GN repeat.

10

15

20

25

136 2 . 1

Additional sequences were identified which were expressed in both normal sera and cancer cells. The sequence set forth in SEQ ID NO:580 (translated as SEQ ID NO:581), e.g., is 2077 nucleotides long, and was expressed by both colorectal cancer and normal cells. Analysis of the sequence showed that it possesses a nuclear targeting sequence. The molecule set forth in SEO ID NO:582 (translated as SEQ ID NO:583) is 3309 nucleotides long, was expressed by colorectal cancer and normal cells, and is similar to heat shock protein 110 family members. The molecule presented in SEQ ID NO:584 (translated as SEQ ID NO:585) was expressed in a colon to lung metastasis, as well as by normal tissue. It is 2918 nucleotides in length. Analysis shows that it contains 2 zinc finger domains. The nucleotide sequence of SEQ ID NO:586 (translated as SEO 30 ID NO:587) was also expressed in a colon to lung metastasis, is 1898 nucleotides long, and is

also expressed by normal tissue. Specifically, the reactivity of the molecules was as follows:

Table 7

15

5	SEQ ID NO:	Normal Sera Reactivity	Tumor Sera Reactivity	
	580	2/16	2/16	
	582	2/16	3/16	·
10	584	2/16	2/16	
	586	2/8	1/16	

A more extensive set of RT-PCR experiments were carried out to study the expression pattern of SEQ ID NOS: 550, 552, 558 and 560. The results follow.

Table 8: RT-PCR analysis of colon SEREX clones

	e south and a second second	SEQ ID	SEQ ID	SEQ ID	SEQ ID	er en
•	normal tissue	NO.:550	NO.:552	NO.:558	NO.:560	. Allantes Hospital (1866)
20	kidney		Negative	Negative	Negative	an alaka kalanda kalanda an
	colon	erse i l	Negative	Negative	Negative	
	small		Negative	Negative	Negative	of Grand Andrews
	intest.) . d.	Negative	Negative	Negative	
	brain	+	Negative	Negative	Negative	
2 5	stomach	+	Negative	Negative	Negative	
	testis	+	Negative	Negative	Negative	
	pancreas	+	Negative	Negative	Negative	
	lung	+	Negative	Negative	Negative	
	liver	+	Negative	Negative	Negative	
30	heart	+	Negative	Negative	Negative	
	fetal		Negative	Negative	Negative	
	brain	+	Negative	Negative	Negative	
	mammary		Negative	Negative	Negative	
	gland	+ .	Negative	Negative	Negative	
35	bladder	+	Negative	Negative	Negative	
	adrenal		Negative	Negative	Negative	
,	gland	+	Negative	Negative	Negative	
	uterus	Negative -	Negative	Negative	Negative	
	skeletal		Negative	Negative	Negative	
40	muscle	Negative	Negative	Negative	Negative	
	PBL	Negative	Negative	Negative	Negative	·
	placenta	Negative	Negative	Negative	Negative	

	spleen thymus esophagus	Negative Negative Negative	Negative Negative Negative	Negative Negative Negative	Negative Negative Negative
	Tumor Tissue				
-5-	renal cancer (4) colon primary	+ (2/4)	+ (2/4)	+ (2/4)	+ (2/4)
	tumors (10)	+ (10/10)	+ (10/10)	+(10/10)	Negative
10	colon mets (4)	+ (4/4)	+ (4/4)	+ (4/4)	Negative
	breast cancer (6)	+ (3/6)	Negative	Negative	Negative
15	lung cancer (6)	+ (6/6)	Negative	Negative	Negative
	gastric cancer (1)	+	+	+	Not tested
	colon cancer cell lines	l.			
20	colo 205 HT29 HCT15	+ + Negative	+ + Negative	+ Negative Negative	Negative Negative Negative

Example 8: Isolation and analysis of additional clones

30

35

For the establishment of a cDNA library from human tissue total RNA was obtained from 0.5 g of a renal clear cell carcinoma and established according to the method of Chomzynski as described above. The mRNA was extracted from total RNA with oligo-dT-cellulose. The synthesis of the first strand cDNA was accomplished by the method described by Gubler and Hoffmann, *Gene* 25: 263 (1983) using RNase H and DNA polymerase I. For adaptation of the cDNA Klenow enzyme, adaptors with EcoRI restriction enzyme sites were ligated to the cDNA ends using T4 DNA ligase (Ferretti L and Sgamerella V, *Nucl. Acids Res.* 9: 3695 (1981)). Following restriction enzymatic digestion with the enzyme Xhol, cDNA molecules of different length were separated using Sephacryl 400 and transfected into \(\lambda\)ZAPII phage vectors (Short JM et al., *Nucleic Acids Res.* 16: 7583 (1988)). The recombinant phage DNA was packaged into phages after ligation with packaging extracts and used for the transfection of *E. coli* bacteria. The titration of the library resulted in 1.8 x 10⁶ recombinant primary clones. The total cDNA library was transfected in *E. coli* and amplified. The titer of the cDNA library after amplification was 10¹¹ plaque forming units per ml (pfu/ml). These transfected cells were used in experiments which follow.

In accordance with the invention as described above, identification of immunogenic material was achieved by using human sera which has been completely depleted of antibodies directed against antigens derived from native and lytic λ phage-transfected E. coli bacteria. To this end, the serum was absorbed, as follows.

E. coli bacteria of the strain XL1-blue were cultured in 50 ml LB medium overnight. After achieving an optical density of $OD_{600} = 1.0$, the bacteria were pelleted by centrifugation, resuspended in 5 ml phosphate buffered saline (PBS), and lysed by sonication. The bacterial lysate was bound onto a matrix of activated Sepharose, which was then put into a column and used for the absorption of the human serum. The serum was run over this column 10 times.

3

10

15

20

25

A culture of E. coli XL1 blue bacteria in the exponential growth phase was pelleted by centrifugation, transfected in 0.01 M magnesium sulfate with $10^6 \, \lambda \text{ZAPII}$ phages without a recombinant insert and incubated in 5 ml LB medium for four hours. The lysate of the transfected bacteria was used in the same manner as the untransfected bacteria, with the human serum described supra being passed through the column an addition ten times.

To complete the depletion of the serum, interfering antibodies from lytically transfected E. coli bacteria were cultured on agar plates and their proteins were blotted onto nitrocellulose membranes after 10 hours of culture at 37°C. Following this, the serum which had been preabsorbed according to the above steps was transferred to the blotted nitrocellulose membrane, and the absorption procedure was repeated five times. The serum, which was processed in accordance with the invention, was totally depleted of antibodies directed against antigens derived from E. coli and phages.

In this, a renal cancer-specific antigen was identified via the following steps. Bacteria of the strain XL1 blue were transfected with recombinant phages derived from the described cDNA library and plated at a density of 4-5x103 plaque forming units (pfu) per plate in LB-medium with isopropylthiogalactopyranoside ("IPTG"). After 12 hours of incubation at 37°C, nitrocellulose membranes were put on top of the cultures and culture plates were incubated for another four hours. This was followed by incubation of the nitrocellulose membrane for one hour in Tris-buffered saline (PBS) with 5% milk powder. After washing the nitrocellulose membranes three times in TBS, the stripped human serum secured following Example 2 was diluted 1:1000 in TBS/0.5% (w/v) milk 30 power and incubated overnight with gentle shaking. After the incubation with the nitrocellulose

membrane the serum was removed and kept for additional testing. Following incubation with serum, the nitrocellulose membranes were washed three times in TBS, and incubated with a polyclonal alkaline phosphatase-conjugated goat anti-human IgG serum for one hour. Following this, the nitrocellulose membranes were washed repeatedly with TBS/0.01% (v/v Tween 20). The reaction was developed using nitroblue tetrazolium chloride and bromochloro-indoyl-phosphate in TBS. The binding of human antibodies to the expressed protein became visible by a blue ring-formed color deposit on the nitro-cellulose membrane. The efficient preabsorption of the serum made in possible to develop the membrane at 37°C over several hours without compromising the quality of the test because of background reactivity caused by antibodies against *E. coli* and phage antigens.

Positive clones were localized on the agar plates, transferred into transfection buffer, and used for a second round of transfection and subcloning. A total of 1.8x10⁶ recombinant clones were subjected to screening and five different positive-reacting clones were identified.

Positive clones, i.e., those which had bound antibodies derived from the processed human serum, were subcloned to monoclonality by repeated rounds of transfection and testing of reactivity with the processed human serum. P-bluescript phagemids with the respective cDNA inserts were not become a serum. cloned by in vivo excision (Hay B and Short JM, Strategies 5: 16-19, 1992) from the \(\lambda ZAPII \) phage \(\lambda \) vectors and used for the transfection of E. coli SOLR bacteria. Plasmids were isolated from the production of E. coli SOLR bacteria. bacteria after alkaline lysis with NaOH in a modification of the method of Birnboim HC and Doly J. Association J. Nucl. Acids Res. 7: 1513 (1979). The recombinant plasmid DNA was sequenced according to 20 standard methods using M13-forward and M13-reverse oligonucleotides. The DNA sequence obtained and the resulting amino acid sequence were compared with nucleic acid and protein data banks (Gene Bank, EMBL, Swiss Prot). The sequencing of the cDNA inserts was continued using internal oligonucleotides. Analysis showed no homology with any sequences deposited in the data banks. The full length cDNA clone, referred to as SK313, was cloned with the RACE method 25 (Frohman MA, Dush MK, Martin GR, Proc. Natl. Acad Sci. USA 85: 8998 (1988)), and had a carbonic anhydrase domain at the 5' end.

As a continuation of these experiments, RNA was isolated from a spectrum of malignant and normal human tissues and Northern blots were performed with labeled SK313 (also referred to as clone HOM-RCC-313). The Norther blot analysis demonstrated that the mRNA of clone HOM-

RCC-313 was overexpressed in 4 out of 19 renal cell carcinomas compared to normal kidneys. Very weak expression was found only in colonic mucosal tissue and in normal kidney. Expression in other tissues was not observed.

allogeneic sera from healthy individuals and tumor patients were analyzed. To this end, the sera were processed as described above and depleted from antibodies against antigens derived from *E. coli* and phages. For the detection of antigen-specific antibodies, phages derived from reactive clones were mixed with non-reactive phages derived from the same-cDNA-library-at-a ratio of 1:10 and tested as described above for reactivity with antibodies in the human test serum. The serum which had been used for the identification of the antigen was used as a positive control. The non-reactive phages served as a negative control. A serum sample was positive for antigen reactive antibodies, if the expected percentage of the phage plaques showed a positive reaction. In the case of the renal cell carcinoma antigen represented by clone HOM-RCC-313, the analysis of a spectrum of human sera showed that only sera from renal cell carcinoma patients contained reactive antibodies. Sera from healthy controls and patients with other tumors did not contain such antibodies.

10

15

20

25

PRM. Sa

TheicDNA for clone HOM-RCC-313 was excised from the plasmid DNA by digestion with the restriction enzyme EcoR1, was separated by agarose gel electrophoresis, followed by extraction from the gel. This was then used to create a vector which expresses a fusion protein with the bacterial protein anthranilate synthetase. A relevant fragment in the exact open reading frame was cloned into pATH plasmid vectors (Koerner et al., *Meth. Enzymol.* 194: 477 (1991)). Induction of protein expression was obtained after transformation of the plasmids into E. coli of strain BL21 as described (Spindleret al., *J. Virol.* 49: 132 (1984)). Expressed fusion proteins were separated by SDS gel electrophoresis, excised from the gel, eluted and freeze dried. Rabbits were immunized by subcutaneous injection with 100 µg of the lyophilisate combined with Freund's adjuvant according to standard procedures. Immunization was repeated three times at two-week intervals using incomplete Freund's adjuvant. The rabbit was bled and antiserum was obtained. The obtained antiserum was depleted from antibodies reactive with E. coli and phages as described above and tested for reactivity against the renal carcinoma antigen as described for the human serum. Reactivity was detected at dilutions of 1:>100,000.

Additional clones were identified from pancreatic cancer tumor specimen using the SEREX method of Sahin et al., (1995). A cDNA library was prepared and reacted with high titer IgG in sera of pancreatic carcinoma patients. A total of 8x10⁵ clones were screened with autologous serum, and 4.5x10³ clones were screened with three different allogeneic sera. Twenty three clones, representing seven different transcripts were found. Four were previously unknown, unisolated genes. Of the remaining three, glycolytic enzyme aldolase A was found (SEQ ID Nos:799 and 800). Another molecule was "known" in that it was homologous to the rat eIF-5 gene (SEQ ID Nos:801 and 802), which is a eukaryotic translation initiation factor. The human eIF-5 gene was not previously known.

When hepatocelullar carcinoma libraries were studied in the same way, a total of 1.5x10⁶ clones were screened, and 98 positives were found. A total of 59 of these were sequenced, and corresponded to at least 20 different transcripts. Nine of these were assayed with allogeneic sera from hepatocellular cancer (HCC) patients and normal patients. High titered antibody was restricted to HCC patients. The majority of isolated sequences did not correspond to known molecules. Three which did were human albumin (SEQ ID Nos:803 and 804), senescence marker protein SMP30 (SEQ ID NOs:805 and 806), and C3VS (SEQ ID NOs:807 and 808). The latter was overexpressed in 2 of 4 hepatocarcinoma tissues, as compared to normal. Expression of SMP30 was found to vary highly.

10

20

25

The methodology was combined with subtractive cDNA techniques when assaying leukemia cells (T-ALL). An antigen was found which was identical to a broadly expressed, DNA repair enzyme.

Further assays identified the known molecule galectin-9 (SEQ ID NOs:809 and 810), as being highly expressed on human macrophages and dendritic cells. Expression is upregulated during differentiation of monocytes to macrophages. Highest levels were found on monocyte derived, dendritic cells.

Fusion proteins "LD1-mFc" and "LD2-mFc" were constructed to help analyze galectin-9. These consist of murine IgG heavy chain fragments, and a lectin domain (LD1, or LD2), as the N-terminus. Analysis indicated that the C-terminal lectin domain binds to the surface ligands, while the cell surface ligands recognized by the C-terminal lectin domain of galactin-9 was expressed only in a small, subpopulation of dendritic cells.

Further analysis of ovarian cancer cells (500,000 clones, using the SEREX method described

A - 41 - 10 / 10 1 40 1 /

· 人名马克斯斯特斯斯斯斯斯特斯特斯特

高温 (基本) 建物物 4.0%

above), identified previously known antigens MAGE-4 (SEQ ID Nos:811 and 812) and restin (SEQ ID Nos:813 and 814), and six other newly identified molecules.

Further experiments were carried out which involved restin. A variation of restin is known, i.e., "CLIP170", which was reported to mediate binding of endosomes to microlubules. It was found that both resin and CLIP 170 are highly expressed in dendritic cells, and are involved in the formation and transport of macropinosomes, a feature of professional antigen presenting cells. Expression of restin was induced after 48 hours of culture of monocytes in GM-CSF/IL-4 supplemented medium. Highest levels were found in immature dendritic cells. When microlubile systems, which are essential for the activity of restin/CLIP-170 were disrupted, macropinocytosis was lost completely.

Further work with the methodology disclosed herein on glioma identified a clone encoding nm23-H2 protein (SEQ ID Nos:815 and 816). This clone corresponds to subunit B of nucleoside diphosphate kinase, which is implicated in tumor metastasis control. It is also known as PuF, a transcriptional factor, for c-myc proto-oncogenes. Antibodies against the protein were found in 1 of 18 sera of brain malignancy patients, 3 of 20 melanoma patients, and 2 of 20 sera from healthy patients. When expression studies were carried out using RT-PCR, 25 of 28 brain tumor, and 4 or 5 mengioma tumor samples were found to express the gene.

Example 9: Isolation and analysis of lung cancer clones

and the property of the control of t

10

20

25

A cDNA library was constructed from a case of moderately differentiated adenocarcinoma of the lung, obtained from the Department of Pathology at The New York Hospital. The library was constructed in a λ ZAP Express vector using a cDNA library kit (Stratagene, La Jolla, CA).

immunoglobulin sequences were subsequently eliminated during the secondary screening.

The reactive clones were subcloned, purified, and *in vitro* excised to pBK-CMV plasmid forms (Stratagene). Plasmid DNA was prepared using Wizard Miniprep DNA Purification System (Promega, Madison, WI). The inserted DNA was evaluated by EcoRI-XbaI restriction mapping, and clones representing different cDNA inserts were sequenced. The sequencing reactions were performed by DNA Services at Cornell University (Ithaca, NY) using ABI PRISM (Perkin Elmer) automated sequencers.

To evaluate the mRNA expression pattern of the cloned cDNA in normal and malignant tissues, gene-specific oligonucleotide primers for PCR were designed to amplify cDNA segments of 300-400bp in length, with the estimated primer melting temperature in the range of 65-70°C. All primers were commercially synthesized (Operon Technologies, Alameda, CA). RT-PCR were performed using 35 amplification cycles in a thermal cycler (Perkin Elmer) at an annealing temperature of 60°C.

10

15

20

25

30

Genomic DNA were extracted from cell lines and frozen tumor tissue. Following restriction enzyme digestion, the DNA was separated on a 0.7% agarose gel, blotted onto nitrocellulose filters, and hybridized to an a ³²P-labeled DNA probe at high stringency (65°C, aqueous buffer). Washing of the blot was also under high stringency conditions, with a final wash in 0.2XSSC with 0.2% SDS at 65°C.

To identify the 5'end of the mRNA transcripts, RACE (rapid amplification of cDNA ends) methodology was utilized using the Marathon cDNA amplification kit (Clontech) and adaptor-ligated testicular cDNA as the substrate. The PCR products, after separation by agarose gel electrophoresis, were cloned into the direct PCR cloning vector pGEM-T (Promega).

Single-strand conformation polymorphism (SSCP) analysis was performed to analyze cDNA from various tissues, using previously described protocols [Dracopoli, C.D. et al., New York: John Wiley and Sons, Inc. (1997)]. Briefly, PCR was performed with 5 μl RT product in a final volume of 25 μl, with 2μCi of α³²P-dCTP (~3000 Ci/mmole, New England Nuclear) per reaction. The PCR conditions was as described for RT-PCR above. After the PCR, 1 μl of the mixture was diluted with 5 μl of denaturing buffer (95% formamide, 20 mM EDTA, 0.05% bromophenol blue, 0.05% xylene cyanol), heat-denatured at 98°C for 2 min, and electrophoresed through an 8% polyacrylamide gel with 10% glycerol. As controls, aliquots of the same samples were diluted with a standard non-

denaturing DNA loading dye and electrophoresed in parallel. The electrophoresis was performed at room temperature at a constant power of 10-12 watts. The gel was then dried and autoradiography performed for 15-24 hours with an intensifying screen.

5 Identification of Immunoreactive cDNA clones

A cDNA expression library of 1.42x10⁷ primary clones was prepared from Lu15, a specimen of moderately differentiated adenocarcinoma of the lung and 8x10⁵ phage plaques were immunoscreened with absorbed autologous patient serum at 1:100 dilution. Excluding false-positive clones encoding immunoglobulin gene fragments, 20 positive clones were identified. These clones were purified and sequence analyzed. Comparisons of the sequences showed that these clones represented cDNAs from 12 distinct genes, designated NY-LU-1 through NY-LU-12 (Table 9). A homology search through the GenBank/EMBO databases revealed that 4 of the 12 genes corresponded to previously known molecules, and 8 others were unknown genes, with sequence identity limited only to short segments of known genes or to expressed sequence tags (ESTs).

State of the second

Table 9: NY-LU clones

ents 15

20

Gene Designation	Gene/Sequence Identity [Accession Number]	cDNA	Comments
NY-LU-1	Aldolase A (N and H type) [X06352]	Lu-15/24, 72, 83, 158, 219, 241	Human fructose, 1,6 diphosphate aldolase A: Expressed in muscle (M type), but also in most other tissues (N and H types). Levels increased in most lung cancers; released into blood upon trauma and in several cancers.
NY-LU-2	hASNA-1 [U60276]	Lu-15/26, 66	Human homolog of the ATP-biding ars A component of the bacterial arsenite transporter. Previously cloned by SEREX from a testicular library (Chen et al., unpolished). Ubiquitously expressed.
NY-LU-3	Annexin 1X [L19605]	LU-15/64	Homosapiens 56K autoantigen. Antibodies to Annexin 1X are found in multiple autoimmune diseases. ubiquitously expressed.

NY-LU-4	Rip-1 [U55766]	Lu-15/65	Human HIV Rev-interacting protein. Expressed in B cells, monocytes and rhabdomyoma cells.
NY-LU-5	Unknown [W61291, W92962, etc.]	Lu-15/80	Expressed ubiquitously (by RT-PCR).
NY-LU-6	Unknown [none]	Lu-15/85	Sequence contains no ORF, expressed ubiquitously (by RT-PCR).
NY-LU-7	Unknown [W23466, AA167732, etc.]	Lu- 15/135,217	Expressed in neuron, pregnant uterus, lung ca., parathyroid tumors, etc.
NY-LU-8	Unknown [Z78323, N39225, etc.]	Lu-15/139	Expressed in fetal heart, retin, multiple sclerosis, etc.
NY-LU-9	Unknown [W26569, AA036884, etc.]	Lu-15/145	Expressed in retina, pregnant uterus, fetal liverspleen, etc.
NY-LU-10	Unknown [M29204, etc.]	Lu-15/154	Expressed in colon, pancreas, pregnant uterus, fibroblasts, etc.
NY-LU-11	Unknown [W23466, AA057400, etc.]		Expressed in retina, pregnant uterus, fetal heart, fetal liver-spleen, parathyroid tumors, etc.
NY-LU-12	g16 - N. in the A.	Lu-15/251	Located at the 3p21 TSG locus (see text)

10

15

20

5

Of the 4 known genes, aldolase A (NY-LU-1; SEQ ID NOs:689 and 690) was most frequently isolated, representing 6 of 20 primary positive clones in the entire screening. NY-LU-2 (SEQ ID NO:691), represented by two isolates, was the human homolog of the ATP-binding arsA component of the bacterial arsenite transporter, a gene which has been shown to be ubiquitously expressed in various tissues [Kurdi-Haidar, B. et al., *Genomics* 36:486-91 (1996)]. NY-LU-3 (SEQ ID Nos:692 and 693) encodes annexin XI, which is a 56KD ubiquitously expressed antigen to which autoantibodies have been described in sera from patients with various autoimmune diseases [Misaki, Y. et al., *J Biol Chem* 269:4240-6 (1994); Misaki, Y. et al., *J Rheumatol*. 22:97-102 (1995)]. The last gene in this group, NY-LU-4 (SEQ ID NOs:694 and 695), codes for the human HIV Rev interacting protein Rip-1, which has been shown to be expressed in the monocyte cell line U937, the rhabdomyoma cell line RD, as well as in adherent monocytes and primary lymphocytes [Refaeli, Y.

Service Service

et al., Proc Natl Acad Sci USA 92:3621-5 (1995)].

Of the eight unknown genes, 6 (NY-LU-5, 7, 8, 9, 10, 11; SEQ ID Nos:696, 698, 699, 700, 701 and 702/703, respectively) shared sequence identify with reported expressed sequence tags (EST), likely representing cDNA products derived from the same genes. These ESTs-were derived from various somatic tissues unrelated to lung, e.g., neuron, pregnant uterus, colon, endothelial cells, etc., suggesting that these genes are widely expressed in human tissues (Table 9), making them unlikely candidates for vaccine-based tumor immunotherapy. These clones were not further—investigated. The only novel-gene in this group, NY-LU-6 (SEQ-ID-NO:697), showed-no-sequence identity to deposited sequences in the public databases. The tissue expression pattern of this gene was evaluated by RT-PCR analysis using gene-specific primers and a normal tissue RNA panel consisting of lung, colon, kidney, liver, brain and testis. Results showed universal expression in these tissues, and this clone was not further analyzed.

NY-LU-12 is on TSG locus of chromosome 3p21.

20

25

The last gene in the unknown gene group, NY-LU-12, was represented by the immunoreactive clone Lu15-251. This clone, 1081bp in length, contained an uninterrupted open reading frame (ORF) of 952 bp, followed by a 129bp 3'untranslated region. No translation initiation codon was identified, indicating that this was a partial cDNA clone.

A sequence homology search revealed that this gene shared up to 30% homology with two different human proteins at its C-terminus (Fig. 1), LUCA15 and DXS8237E (GenBank accession numbers U23946, and P98175) and also shared homology to S1-1, the rat counterpart of DXS8237E [Inoue, A. et al., *Nucleic Acids Res.* 24:2990-7 (1996)]. LUCA15 was subsequently proven to be a gene immediately centromeric to NY-LU-12 on the *TSG* locus on chromosome 3p21 (see below and [Wei, M.H. et al., *Cancer Res.* 56: 2487-92 (1996))]. Our analysis of LUCA15 revealed the presence of a nuclear localization signal in the putative LUCA15 protein. DXS8237E, was located on chromosome Xp11.23 [Coleman, M.P. et al., *Genomics* 31:135-8 (1996)] and its rat homolog, S1-1, has been shown to be an RNA-binding protein [Inoue, A. et al., *Nucleic Acids Res.* 24:2990-7 (1996)].

Of particular interest, however, was that a short segment (92bp) at the 5' end of NY-LU-12 was identical to a previously identified gene, g16 (GenBank accession number U50839), which was

mapped to chromosome 3p21.3 and was interrupted in the small cell lung cancer line NCI-H740.

To compare NY-LU-12 with g16, the full-length NY-LU-12 cDNA sequence was obtained from normal testicular mRNA through a combination of 5'RACE and direct PCR cloning strategies. The predominant cDNA form (SEQ ID No:707), excluding the poly A tail, is of 3591bp in length. An open-reading-frame of 1123 amino acid residues (SEQ ID No:708) was identified (nt. 102-3470), with 101bp of 5' untranslated and 129bp of the 3' untranslated region. The nucleotide and amino acid sequences are shown in Fig. 2.

Comparison with the g16-sequence verified that these two are identical genes and mapped NY-LU-12 to TSG locus on 3p21. However, the reported g16 sequence, 2433 bp in length, lacks the 5' end 110 bases which include the translational initiation codon at nucleotide 102, and also the 3' end 980 nucleotides of NY-LU-12. In addition, 74bp DNA segment (nt. 1587-1659 of NY-LU-12) was absent in the reported g16 sequence. Oligonucleotide primers flanking this 74 bp region were designed and used to amplify RNA from 1 normal lung, 5 lung cancer cell lines, and 6 lung cancer specimens. Two RT-PCR products were seen in every specimen, corresponding to the sizes of the two cDNA variants. It was thus concluded that this variation represents an alternate splicing event which occurs in both normal and cancerous lung tissues. Of interest, however, was the difference in the putative translational products resulting from this additional 74bp exon. In the absence of this exon, the open-reading-frame of NY-LU-12 would end in the termination codon at nt.1736, as reported for g16, with a total length of 520 amino acid residues (in contrast to 1123 residues in the longer transcript). Moreover, this shorter form would not encode the C-terminal portion of the NY-LU-12 protein, the segment responsible for the immunoreactivity of Lu15-251 to the autologous patient serum.

Additional cDNA variants of NY-LU-12

10

15

20

25

In the process of 5'RACE cloning of the full-length NY-LU-12, three minor forms of cDNA products were identified which varied in their transcriptional initiation site and in their exon usage in the 5' segment of this gene. These variants will be described as transcripts B, C, and D (SEQ ID Nos:709, 711 and 712). Fig. 3 shows the comparison of these transcripts to the predominant cDNA form (transcript A, see Fig. 2).

Transcript B (Fig. 3A, bottom) contains an additional exon of 208 base pairs, inserted at

A WATURDOUTHER TO FA

nucleotide 145 of the NY-LU-12 sequence. The original ORF of NY-LU-12 is disrupted due to this inserted sequence, and the AUG initiation codon used by transcript A is thus unlikely to be used by this transcript. A new potential translational initiation site, however, is found within this new exon and would continue the translation into the ORF of transcript A. The final product would be a protein of 1177 amino acids (SEQ ID NO:710), with the 69 residues at the N-terminus different from transcript A. Interestingly, this new exon encodes for a signal peptide not present in the transcript A (Fig. 3A, bottom), and it is possible that these two products are localized to different subcellular compartments.

Similar to transcript B, transcripts C and D both contained additional exon(s) not present in transcript A. Transcript C contained two extra exons in tandem and a length of 364bp, only one of which (137bp) was present in transcript D, Figure 3B. These extra exon(s), inserted at the same alternate splicing site as transcript B, disrupted the original ORF, and the only long ORF would initiate at nucleotide position 498 of NY-LU-12 (959 of transcript C, 635 of transcript D).

Considering the long untranslated region at the 5' end, it is doubtful whether transcripts C and D are indeed translated *in vivo*.

RNA species in normal tissues, ranging approximately from 3 to 4.4 Kb. The intensity of individual bands also appear to vary among different tissues, suggesting post-transcriptional tissue specific regulation of NY-LU-12 mRNA.

Features of NY-LU-12 and its putative gene product

10

15

20

25

30

Analysis of the NY-LU-12 amino acid sequence showed 20 inexact 6 amino acid repeats with a consensus sequence of D(F/Y)RGR(D/E) close to the N-terminus (Fig. 2). These repeats were separated by 4 to 6 amino acid intervals, which showed no apparent sequence homology among each other. This feature in primary sequence is distinctive among known proteins. Hydrophilicity plot revealed that this region, although hydrophilic in general, has regular hydrophobic turns, and these cycles of hydrophilicity changes correspond to the hexapeptide repeats. Although the significance of this characteristic is unclear at present, this segment of sequence is highly rich in arginine and aspartic acid, a feature shared by RNA binding proteins. Similar motifs, rich in arginine and aspartic acid residues, were found in other RNA-binding proteins-FWitte, M.M.

et al., *Proc Natl Acad Sci USA* 94: 1212-7 (1997); Wilson, R. et al., *Nature* 368:32-8 (1994); Seraphin, B. et al., *Nature* 337:84-7 (1989); Takagaki, Y. et al., *Proc Natl Acad Sci USA* 89:1403-7 (1992)], e.g., RNA [Seraphin, B. et al., *Nature* 337:84-7 (1989)] hnRNA 3'end cleavage stimulation factor [Takagaki, Y. et al., *Proc Natl Acad Sci USA* 89:1403-7 (1992)], etc., indicating that NY-LU-12 is likely to be an RNA-binding protein. Consistent with this, PROSITE analysis of the putative NY-LU-12 protein identified a bipartite nuclear localization signal between amino acids 1016-1032 and a 4-residue nuclear localization pattern (PRKR) at amino acid 604-607 (Fig. 2), suggesting that NY-LU-12 is a nuclear protein. Analysis for post-translational modification sites showed potential sites for tyrosine sulfation, amidation, as well as phosphorylation sites for protein kinase A, C, casein kinase II, and tyrosine kinase. A PEST region, peptide sequences consistently found among unstable proteins with short half lives, was identified at amino acids 897-928 (Fig. 2), implying NY-LU-12 as an unstable protein.

Southern blot analysis of NY-LU-12 in normal and tumor tissues

To investigate the status of NY-LU-12 in normal and tumor cells, Southern blot analysis was performed on 9 lung cancer cell lines (3 adenocarcinoma, 2 squamous, and 3 large cell anaplastic); leading Lu15 tumor DNA, and a colon cancer cell line HT29 (Fig. 4). (HT29 was included due to the finding of an EST identified in the GenBank, accession number AA079461, which appeared to be a fusion sequence between semaphorin IV gene and NY-LU-12.) Using a 1.1Kb cDNA probe and NY-LU-12. (nucleotide 1095-2140) and HindIII digested DNA, the results showed that one of the two 20 hybridizing bands was absent in NCI-H740, confirming that NY-LU-12 was partially deleted in this cell line. The breakpoint of this deletion, by using primers from different regions, was further defined to be between nucleotides 1433 and 1777 of NY-LU-12, with the 3' sequences homozygously deleted. Besides NCI-H740, however, no evidence of homozygous deletion was seen in any other tumor cell line sample or in LU15. The similar band intensities and identical sizes of the DNA signals in all specimens also argued against the possibility of a heterozygous deletion or translocation of this gene, at least in the region analyzed. No change was found in HT29, suggesting that the semaphorin IV/NY-LU-12 fusion sequence in the GenBank probably represents a cloning artifact.

SSCP and sequence analysis of NY-LU-12 in Lu15 tumor DNA.

The mapping of NY-LU-12 to the lung cancer *TSG* locus raised the possibility that an altered protein product due to mutational event may be the basis for the autologous immune recognition. This possibility was explored using DNA sequencing and single-strand-confirmational polymorphism (SSCP) analysis.

The DNA sequence contained in the immunoreactive clone Lu15-251 (nucleotide 2518-3599 of NY-LU-12) was obtained from the normal counterpart by RT-PCR cloning using autologous normal lung tissue, and no mutations were found when compared to Lu15-251.

RT-PCR SSCP was then used to analyze the entire NY-LU-12 gene, comparing Lu15 tumor tissue and autologous normal lung tissue. To encompass the whole sequence, 10 sets of primer pairs were designed, each amplifying a range of 205 to 603 bps. For products >400bps, a restriction enzyme digestion step was added prior to the electrophoresis step to further reduce the fragment sizes and increase the assay sensitivity. Results showed no reproducible changes between normal and tumor tissues, and thus no evidence of mutation in Lu15 tumor cDNA. A representative set of SSCP analysis is shown in Fig. 5.

Serological response to NY-LU-12 in lung cancer patient

The frequency of anti-NY-LU-12 response was examined among normal adult and patient sera using the phage plaque assay identical to the original immunoscreening procedure. Of 21 absorbed sera from allogeneic lung cancer patients, one (Lu22) reacted strongly with the Lu15-251 plaque at 1:1000 dilution, and another (Lu7) also reacted at 1:1000, but only weakly. Nineteen other lung cancer patient sera were non-reactive, nor were the sera from 16 healthy donors, 15 colon cancer, 5 breast cancer, 1 renal cancer, 1 prostate cancer, 1 esophageal cancer, and 1 melanoma patients.

25

20

Example 10: Expression analysis of additional cancer associated nucleic acids

The clone RING 3 was isolated from breast SEREX analysis as LONY-Br-5 (see above).

The gene was identified as homologous to the "bromodomain testis" gene (BRDT; GenBank accession number AF019085). Analysis of related genes identified BRDT as a gene expressed only in testis, which was then investigated by RT-PCR analysis as described above.

The primers used to perform RT-PCR had the following sequences:

BRDT F1: CAAGAAAGGCACTCAACAG (bp 543-563 of BRDT)

BRDT R1: TTCACTACTTGCTTTAACTGC (bp 776-797 of BRDT)

The meiotic protein H1T-(Histone-1 Testis; GenBank accession number M60094) was

identified through a literature search for meiotic proteins (testis specific expression).

The primers used to perform RT-PCR had the following sequences:

H1F1: TGCCGAACCTCTCTGTGTC (bp 116-135 of H1T)

H1R1: GCTTCGTGTAGATTTAGGAATC (bp 344-366 of H1T)

10 Table 10: RT-PCR analysis

Renal

Ovary Esophageal

	Normal Tissue	BRDT	<u>H1T</u>
	mammary gland	<u>.</u>	· <u>·</u>
	liver	-	•
15	small intestine	-	-
	brain	-	+/- (very weak)
	lung	<u>-</u>	- ' '
	fetal brain	-	. -
	placenta	14 Table 1	+
20	kidney	سي کرون کا کالجوو	e -
	skeletal muscle	E. San	-
	pancreas		resignation of the Control of State of the Control
	adrenal gland	•	-
	heart	-	-
25	thymus	-	-
	uterus	-	
	prostate	-	+/- (very weak)
	spleen	-	-
	Testis	+	+ .
30			•
	Tumor Tissue	BRDT	<u>H1T</u>
	Colon	0/6	0/6
2.5		0/6	
35	Breast		6/6+
	Melanoma	0/12	3/12+
	Lung	8/26+	4/26+

0/2 0/2

-0/1-

0/2

0/2

0/1

I U I / U 0 7 0 / 1 4 0 / 2

Gastric 0/1 0/1 Bladder 0/2 0/2

ひ フフロマムロン

Lung cancer specific expression of BRDT was observed (see table above). BRDT was expressed only in normal testis and possibly in placenta. The expression analysis of H1T revealed that all breast tumor samples (6 of 6) and ~30% lung cancers and melanoma tissue samples expressed H1T. H1T was expressed in normal testis and possibly in placenta and brain.

Example 11: allogeneic serotyping

10

15

20

To confirm the cancer associated expression of SEREX clones, allogenic sera screening of gastric cancer patients' sera was conducted. Sera from normal patients (gastritis) was used as a control for expression of the clones in non-gastric cancer. The screening procedure used was as described above for the SEREX screening, except for the absorption of anti-bacterial and———— anti-bacteriophage antibodies. The modifications were as follows.

Serum from a stomach cancer patient or a normal individual was diluted to 1:10 in TBS (Tris buffered saline; final volume 5 ml) and passed through a column (BIO-RAD Poly-Prep Chromatography Column, Hercules. CA, USA) containing 0.5 ml Sepharose-4B cross linked to E. coli BNN97 (5 Prime 3 Prime, Inc, coli Y1090 lysate and 0.5 ml Sepharose-4B cross linked to E. coli BNN97 (5 Prime 3 Prime, Inc, Boulder, CO, USA). After repeating the column chromatography 10 times, serum was then diluted to 1:100 in TBS containing 1% BSA and 0.02% sodium azide. To remove antibodies to bacteria and baceteriophages further, 10 ml absorbed serum was incubated overnight with a 82 mm nitrocellulose membrane on which XL-1 Blue MRF' bacteria and lambda ZAP Express phages (Stratagene, La Jolla, CA USA) were immobilized. The serum was stored at - 80°C until use. For allogeneic typing, an equal numbers of positive phage and negative phage were mixed and plated and processed by the standard SEREX screening procedure.

The results of the allogenic screening experiments follow:

Table 11: Allogenic Sera Screening of SEREX Sequences from Gastric Patients

	Sequence		Isolated in Serex	Allogenic Serotyping Gastric Cancer Sera	Allogenic Serotyping Normal Sera
	Gene/Clone	Number	Patients		
	RPB-J H-2K binding factor		_ SM1		6/16 -
5	Telomeric repeat binding protein		SM1	1/12	0/16
	Ser/Thr protein kinase		SM1	1/12	0/16
	SRY interacting protein-1		SM1	2/12	1/16
	Sterol carrier protein X		SM1	2/12	0/16
10	Archain		SMI	1/12	1/16
	HEM-1		SM1	2/12	1/16
	Id-1 helix-loop-helix protein		SM1	1/12	0/16
15	helix-loop-helix transcription factor		SMI	1/12	0/16
	Follistatin related precursor protein		SM1,CK, KM	6/12	0/16
	Translation initiation factor eIF-4gamma		SM1,SS1, KM	5/12	2/16
20	M phase phophoprotein I		SM1,SS1	8/12	5/16
	Lysal tRNA synthase		SM1	1/12	0/16
	Gelsolin		SM1	4/12	0/16
	Zinc finger protein		SM1	1/12	1/16
	Goliath		SM1	2/12	1/16
25	zhx-1		SM1	1/12	1/16
	SG24		SM1,SS1, KM	5/12	0/16
	SG132		SM1	3/12	0/16
	S553		SM1	7/12	7/16
	S134		SM1	3/12	0/16
30	S328		SM1	2/12	1/16
	S365		SM1, KM	2/12	0/16

Г			r ———	T		-
	FKBP25		KM, SS1	5/12	0/16	
	Pros-27		KM, CK	3/12	. 1/16] .
	BS4	·	KM	1/12	1/16	-
.	GnRH-II		· - KM	1712	-: 0/16	
5	СТВР		KM	1/12	0/16	
L	ETF		KM	· 3/12	1/16	1
	KIAA0438		KM	1/12	5/16	
	KIAA0367		КМ	4/12	3/16	
	APK1		KM	2/12	0/16	
10	IPP	•	KM	1/12	0/16	1
	Tropomyosin		KM	1/12	0/16	
	p63		KM	1/12	0/16	
	KIAA0181		KM	1/12	0/16	-
	KIAA0349		KM	1/12	0/16	
15	RPB1		KM	5/12	9/15	
	PPIM	-	KM	1/12	• .	980
	EB virus	- 2	KM	3/12	•	ZISKI I
	G.KM073		KM	6/12		1.550 A
	G.KM403		KM	1/12	-	
20	KM192		KM	1/12	•	1
	KM294		KM	1/12	•	1
	KM362		KM	1/12	•	-
	KM031		KM	1/12	•	1
	KM081		KM	3/12	-	-
25	KM201		KM	1/12	•	1
	KM1496		KM	1/12	•	-
	KM334		KM	1/12	· -	1
	KM313		KM	1/12		1
Ī	E-cad/Y		CK	1/12	0/16	1
30	IPBP		SS1	1/4	-	1
	OS-9	• · · · · ·	SS1	1/4		.

	 · · · · · · · · · · · · · · · · · · ·		······································
Kinesin light chain	SS1	1/4	-

The screening results shown above confirm the association of the SEREX clones with cancer. There is a higher correlation of cancer and the expression of certain clones, in particular, follistatin related precursor protein, the translation initiation factor eIF-4gamma, the unknown sequence SG24, the FK506-binding protein 25, and the unknown sequence G.KM073. These clones are well suited to serve as diagnostic indicators of disease and as targets for therapeutics (e.g., vaccine compositions) development.

10 Example 12: Preparation of recombinant cancer associated antigens

5

15

20

25

30

To facilitate screening of patients' sera for antibodies reactive with cancer associated antigens, for example by ELISA, recombinant proteins are prepared according to standard procedures. In one method, the clones encoding cancer associated antigens are subcloned into a baculovirus expression vector, and the recombinant expression vectors are introduced into appropriate insect cells. Baculovirus/insect cloning systems are preferred because post-translational modifications are carried out in the insect cells. Another preferred eukaryotic system is the **Drosophila** Expression System from Invitrogen. Clones which express high amounts of the recombinant protein are selected and used to produce the recombinant proteins. The recombinant proteins are tested for antibody recognition using serum from the patient which was used to isolated the particular clone, or in the case of cancer associated antigens recognized by allogeneic sera, e.g. certain breast cancer and gastric cancer associated antigens, by the sera from any of the patients used to isolate the clones or sera which recognize the clones' gene products.

Alternatively, the cancer associated antigen clones are inserted into a prokaryotic expression vector for production of recombinant proteins in bacteria. Other systems, including yeast expression systems and mammalian cell culture systems also can be used.

Example 13: Preparation of antibodies to cancer associated antigens

The recombinant cancer associated antigens produced as in Example 12 above are used to generate polyclonal antisera and monoclonal antibodies according to standard procedures. The antisera and antibodies so produced are tested for correct recognition of the cancer associated

antigens by using the antisera/antibodies in assays of cell extracts of patients known to express the particular cancer associated antigen (e.g. an ELISA assay). These antibodies can be used for experimental purposes (e.g. localization of the cancer associated antigens, immunoprecipitations, Western blots, etc.) as well as diagnostic purposes (e.g., testing extracts of tissue biopsies, testing for the presence of cancer associated antigens).

Example 14: Expression of cancer associated antigens in cancers of similar and different origin.

5

25

30

The expression of one or more of the cancer associated antigens is tested in a range of tumor samples to determine which, if any, other malignancies should be diagnosed and/or treated by the methods described herein. Tumor cell lines and tumor samples are tested for cancer associated antigen expression, preferably by RT-PCR according to standard procedures. Northern blots also are used to test the expression of the cancer associated antigens. Antibody based assays, such as ELISA and western blot, also can be used to determine protein expression. A preferred method of testing expression of cancer associated antigens (in other cancers and in additional same type cancer patients) is allogeneic serotyping using a modified SEREX protocol (as described above for gastric clones).

In all of the foregoing, extracts from the tumors of patients who provided sera for the initial isolation of the cancer associated antigens are used as positive controls. The cells containing
recombinant expression vectors described in the Examples above also can be used as positive controls.

The results generated from the foregoing experiments provide panels of multiple cancer associated nucleic acids and/or polypeptides for use in diagnostic (e.g. determining the existence of cancer, determining the prognosis of a patient undergoing therapy, etc.) and therapeutic methods (e.g., vaccine composition, etc.).

Example 15: HLA typing of patients positive for cancer associated antigen

To determine which HLA molecules present peptides derived from the cancer associated antigens, cells of the patients which express the cancer associated antigens are HLA typed. Peripheral blood lymphocytes are taken from the patient and typed for HLA class I or class II, as

well as for the particular subtype of class I or class II. Tumor biopsy samples also can be used for typing. HLA typing can be carried out by any of the standard methods in the art of clinical immunology, such as by recognition by specific monoclonal antibodies, or by HLA allele-specific PCR (e.g. as described in WO97/31126).

5

25

30

Example 16: Characterization of breast cancer associated antigen peptides presented by MHC class I and class II molecules.

Antigens which provoke an antibody response in a subject may also provoke a cell-mediated immune response. Cells process proteins into peptides for presentation on MHC class I or class II molecules on the cell surface for immune surveillance. Peptides presented by certain MHC/HLA molecules generally conform to motifs. These motifs are known in some cases, and can be used to screen the breast cancer associated antigens for the presence of potential class I and/or class II peptides. Summaries of class I and class II motifs have been published (e.g., Rammensee et al., Immunogenetics 41:178-228, 1995). Based on the results of experiments such as those described in Example 15, the HLA types which present the individual breast cancer associated antigens are known. Motifs of peptides presented by these HLA molecules thus are preferentially searched.

One also can search for class I and class II motifs using computer algorithms. For example, computer programs for predicting potential CTL epitopes based on known class I motifs has been described (see, e.g., Parker et al, J. Immunol. 152:163, 1994; D'Amaro et al., Human Immunol. 43:13-18, 1995; Drijfhout et al., Human Immunol. 43:1-12, 1995). HLA binding predictions can conveniently be made using an algorithm available via the Internet on the National Institutes of Health World Wide Web site at URL http://bimas.dcrt.nih.gov. Methods for determining HLA class II peptides and making substitutions thereto are also known (e.g. Strominger and Wucherpfennig (PCT/US96/03182)).

The lung cancer SEREX clone polypeptides NY-LU-12 and NY-LU-12B (variant B), SEQ ID NOs: 708 and 710, were subjected to the HLA binding peptide analysis described above, using the NIH website, to identify HLA binding peptides for several common HLA molecules (HLA-A1, A2, A3, A24, B7, B44, and B52). The results are listed below in Table 12.

Table 12: Identification of HLA binding peptides in lung SEREX clones

amino acids of

	HLA	peptide	NY-LU-12 protein	SEQ ID NO	
	A1	NVEE-HSFSY	67 - 75 ·	713	
		PVDP-NILDY	287 - 295	714	
-5		-DTDY-RSMEY	398 406	715 -	
				·	
	A2	SLLE-DAIGC	506 - 514	716	·
		TLMI-QDKEV	521 - 529	717	
		YVSSLDFWYC	533 - 542	718	
10		VIVEVLEPYV	671 - 680	719	
		-KLTD-WNKLA	948 - 956	72 0	
		QLSDLHKQNL	975 - 984	721	
		KQSEQELAYL	991 - 1000	722	
		KLVDKEDIDT	1042 - 1051	723	•
15		VMFA-RYKEL	1114 - 1122	724	·
	A 3	QMFG-YGQSK	417 - 425	725	•
÷		GMPVKNLQLK	481 - 490	726	,
		GLPE-EEEIK	823 - 831	727	• .
20		LLCRRQFPNK	958 - 967	728	
	A24	EYRD-VDHRL	405 - 413	729	, david
		GYVC-VEFSL	499 - 507	730	
	* .	DYGY-VCVEF	497 - 505	731	and the second of the second o
25		WYCKRCKANI	540 - 549	732	17.18. A. L
		TYPQPQKTSI	574 - 583	733	
		IYRSTPPEVI	663 - 672	734	the property
		HYYQ-GKKYF	754 - 762	735	
		VYVP-QDPGL	816 - 824	736	· •
30					•
	B7	WNRDYPPPPL	26 - 35	737	
		MPPV-DPNIL	285 - 293	738	. '
		TARD-AQRDL	432 - 440	739	•
		GPSEEKPSRL	448 - 457	740	
35		TPPEVIVEVL	667 - 676	741	
		RVMFARYKEL	1113 - 1122	742	
	D 4.4	DEMG 001/22			•
	B44	REMG-SCMEF	272 - 280	743	
40		EEQSSDAGLF	376 - 385	744	
40		KEYN-TGYDY	490 - 498	745	
		TEAKQELITY	566 - 575	746	
		VEALRVVKIL	710 - 719	747	
		GEYG-GDSDY	906 - 914	748	
		LERREREGKF	1000 - 1009	74.9	

TPPEVIVEVL 667 - 676 751 YGFIDLDSHV 701 - 710 752 RQFP-NKEVL 962 - 970 753 NY-LU-12B (Variant B) A1 NVEE-HSFSY 121 - 129 754 10 PVDP-NILDY 341 - 349 755 DTDY-RSMEY 452 - 460 756 A2 WQSA-RFYYL 41 - 49 757 SLLE-DAIGC 560 - 568 758 15 TLMI-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQKK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFFNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 GYV-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 TYPSTPEVI TYPSTPEVI 177 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QPPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AGRDL 486 - 494 783 GPSEKPSRL 502 - 511 784 TARD-AGRDL 486 - 494 783 GPSEKPSRL 502 - 511 784 TPPEVIVEVL, 721 - 730 785			B52	RQDGESKTIM	650 - 659	750	
RQFP-NKEVL 962 - 970 753				TPPEVIVEVL	667 - 676	751	
NY-LU-12B (variant B) NY-LU-12B (variant B)				YGFIDLDSHV	701 - 710	752	in and a second
A1 NVEE-HSFSY 121 - 129 754 10 PVDP-NILDY 341 - 349 755 DTDY-RSMEY 452 - 460 756 A2 WQSA-RFYYL 41 - 49 757 SLLE-DAIGC 560 - 568 758 15 TLMT-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYIN-ATDVL 47 - 55 771 GYVL-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCRCKAN1 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEKPSKL 502 - 511 784 TPPEVIVEVL 721 - 730 785				RQFP-NKEVL	962 - 970	753	
A1 NVEE-HSFSY 121 - 129 754 10 PVDP-NILDY 341 - 349 755 DTDY-RSMEY 452 - 460 756 A2 WQSA-RFYYL 41 - 49 757 SLLE-DAIGC 560 - 568 758 15 TLMI-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 20 KQSEQLAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 - 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY -VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		5					
10	a-		NY-L	U-12B (variant	в)		
10			አገ	MUPE_UCDOV	101 100	754	
A2 WQSA-RFYYL 41 - 49 757 SLLE-DAIGC 560 - 568 758 15 TLMI-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 STORE FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GVVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WCKRCKANI 594 - 603 776 TYPQPQKTSI 628 - 637 777 IVRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VXVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		10	AT				
A2 WQSA-RFYYL 41 - 49 757 SLLE-DAIGC 560 - 568 758 TLMI-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 20 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 GPSEEKPSRL 502 - 511 784 TPDEVIVEVL 721 - 730 785		10					· .
SLLE-DAIGC 560 - 568 758 TLMI-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785					452 400	736	·
15 TLMI-QDKEV 575 - 583 759 YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 20 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785			A2	WQSA-RFYYL	41 - 49	757	•
YVSSLDFWYC 587 - 596 760 VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QLSDLHKQNL 1029 - 1038 763 20 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785					560 - 568	758	
VIVEVLEPYV 725 - 734 761 KLTD-WNKLA 1002 - 1010 762 QUSDLHKQNL 1029 - 1038 763 20 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYC-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		15					
KLTD-WNKLA 1002 - 1010 762							
QLSDLHKQNL 1029 - 1038 763 20 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 GPSEEKPSRL 502 - 511 764 TPPEVIVEVL 721 - 730 785							
20 KQSEQELAYL 1045 - 1054 764 KLVDKEDIDT 1096 - 1105 765 VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 - 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		_					
RLVDKEDIDT	•		•	· -			
VMFA-RYKEL 1168 - 1176 766 A3 QMFG-YGQSK 471 - 479 767 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		20					
A3 QMFG-YGQSK 471 - 479 767 25 GMPVKNLQLK 535 - 544 768 GLPE-EEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785							
25 GMPVKNLQLK 535 - 544 768 GLPE-EEEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				VMFA-RYKEL	1168 - 1176	766	
25 GMPVKNLQLK 535 - 544 768 GLPE-EEIK 877 - 885 769 LLCRRQFPNK 1012 - 1021 770 A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785			A 3	QMFG-YGQSK	471 - 479	767	
A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		25		GMPVKNLQLK	535 - 544		
A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				GLPE-EEEIK	877 - 885		
A24 YYLN-ATDVL 47 - 55 771 30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				LLCRRQFPNK	1012 - 1021	770	
30 FYYLNATDVL 46 - 55 772 EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785					1.314		
EYRD-VDHRL 459 - 467 773 GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785			A24	YYLN-ATDVL	47 - 55	771	
GYVC-VEFSL 553 - 561 774 DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		30		FYYLNATDVL	46 - 55	772	
DYGY-VCVEF 551 - 559 775 WYCKRCKANI 594 - 603 776 35 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				EYRD-VDHRL	459 - 467	773	
WYCKRCKANI 594 - 603 776 TYPQPQKTSI 628 - 637 777 IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				GYVC-VEFSL	553 - 561	774	•
35 TYPQPQKTSI 628 - 637 777				DYGY-VCVEF	551 - 559	775	
IYRSTPPEVI 717 - 726 778 HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				WYCKRCKANI	594 - 603	776	
HYYQ-GKKYF 808 - 816 779 VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		35			628 - 637	777	•
VYVP-QDPGL 870 - 878 780 40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				IYRSTPPEVI	717 - 726	778	· ·
40 B7 WNRDYPPPPL 80 - 89 781 MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785					808 - 816	779	
MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785				VYVP-QDPGL	870 ~ 878	780	
MPPV-DPNIL 339 - 347 782 TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785		40	В7	WNRDYPPPPL	80 - 89	781	
TARD-AQRDL 486 - 494 783 GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785							
GPSEEKPSRL 502 - 511 784 TPPEVIVEVL 721 - 730 785							
TPPEVIVEVL 721 - 730 785				· -			
		45					/ 11

	B44	SEAWSSNEKF	59 - 68	787
		REMG-SCMEF	326 - 334	788
		EEQSSDAGLF	430 - 439	789 .
		KEYN-TGYDY	544 - 552	790 ·
5		TEAKQELITY	620 - 629	791
		-VEALRVVK:I:L:	764 773	792
		GEYG-GDSDY	960 - 968	793
		LERREREGKF	1054 - 1063	794
10	B52	RQDGESKTIM	704 - 713	795
		TPPEVIVEVL	721 - 730	796
		YGFIDLDSHV	755 764	797
		RQFP-NKEVL	1016 - 1024	798

Likewise, other clones identified herein can be analyzed for the presence of candidate HLA binding peptides using no more than routine experimentation.

15

Example 17: Identification of the portion of a cancer associated polypeptide encoding an antigen

To determine if the cancer associated antigens isolated as described above can provoke at a second control of the cancer associated antigens isolated as described above can provoke at a second control of the cancer associated antigens isolated as described above can provoke at a second control of the cancer associated antigens isolated as described above can provoke at a second control of the cancer associated antigens isolated as described above can provoke at a second control of the cancer as a second control 20 cytolytic T lymphocyte response, the following method is performed. CTL clones are generated by stimulating the peripheral blood lymphocytes (PBLs) of a patient with autologous normal cells the transfected with one of the clones encoding a cancer associated antigen polypeptide or with irradiated PBLs loaded with synthetic peptides corresponding to the putative protein and matching the consensus for the appropriate HLA class I molecule (as described above) to localize an antigenic 25 peptide within the cancer associated antigen clone (see, e.g., Knuth et al., Proc. Natl. Acad. Sci. USA 81:3511-3515, 1984; van der Bruggen et al., Eur. J. Immunol.24:3038-3043, 1994). These CTL clones are screened for specificity against COS cells transfected with the cancer associated antigen clone and autologous HLA alleles as described by Brichard et al. (Eur. J. Immunol. 26:224-230, 1996). CTL recognition of a cancer associated antigen is determined by measuring release of TNF 30 from the cytolytic T lymphocyte or by 51Cr release assay (Herin et al., Int. J. Cancer 39:390-396, 1987). If a CTL clone specifically recognizes a transfected COS cell, then shorter fragments of the cancer associated antigen clone transfected in that COS cell are tested to identify the region of the gene that encodes the peptide. Fragments of the cancer associated antigen clone are prepared by

exonuclease III digestion or other standard molecular biology methods. Synthetic peptides are prepared to confirm the exact sequence of the antigen.

Optionally, shorter fragments of cancer associated antigen cDNAs are generated by PCR. Shorter fragments are used to provoke TNF release or ⁵¹Cr release as above.

Synthetic peptides corresponding to portions of the shortest fragment of the cancer associated antigen clone which provokes TNF release are prepared. Progressively shorter peptides are synthesized to determine the optimal cancer associated antigen tumor rejection antigen peptides for a given HLA molecule.

A similar method is performed to determine if the cancer associated antigen contains one or more HLA class II peptides recognized by CTLs. One can search the sequence of the cancer associated antigen polypeptides for HLA class II motifs as described above. In contrast to class I peptides, class II peptides are presented by a limited number of cell types. Thus for these experiments, dendritic cells or B cell clones which express HLA class II molecules preferably are used.

15

20

10

5

EOUIVALENTS

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

All references disclosed herein are incorporated by reference in their entirety.

We claim:

TABLE 1

SEQ ID NO. 1:

U72994, AC004022, Z68323, AE001160, L34078, AF064863, AC002132, U60440, X66494, N21242, AA678312, W86762, R01605, AA782843, AA275156, W41927, AA874648, AA571241, AA562747, W10480, AA451301, AA866631, AA466667, AA999057, AI029140.

10 SEQ ID NO. 2:

AC004022, U72994, AC002420, AC004125, AA690961, W41927, AA874648, AC004022, U72994, AC002420, AC004125, AA690961, W41927, AA874648.

15 SEQ ID NO. 3:

X98371, AL009008, L31790, Z83220, X92946, AC003975, AF008916, U80460, X75544, X66732, X95275, X52177, X07976, AC004451, Z74307, AB000878, AL009179, AF038667, Z78544, Z48008, U23486, J05096, AB000882, Z30213, L11593, U18530, L27325, AC005191, M99579, AA130270, AA158245, AA903098, AI018453, AA436455, AA980593, AA172479, AA637487, AA116588, AA426854, AA050404, AA390025, AI006618, AI048382, C85944, AA673480, AI006510, AA823338, AA413694, W35075, AA015033, AA413584, W29693, AA637069, AA619839, AA125149, AA039004, AA674696, AA871138, AA414747,

AA198099, C91478, F071359, AA925957, AA820054, H16496, AI043756, AA892435, AA893551, AA818669, AA892785, AA944026, D33919, N96570, F19798, AI045451, AA800662, D65187, AA944025, AA925731, AA892314, AA945449.

SEQ ID NO. 4: 30

AA900930, AA925665.

SEQ ID NO. 5: 35

U58105, Z81485, Z54236, Z48584, U61375, M55267, M59856, X51942, U77302, Z48621, AF032455, Z11866, AB013392, L32792, AA871997, AA084083, AA130829, AA083063, AA666290, N38894, D54459, T28921, AA806015, AA512059, AI043087, AI042894,

AA968324, AA238493, AA237462, AI042885, AI046424, AI035670, AA269430, AA250621, AI035540, AA260613, AA106870, AA238658, AA106134, AI042683, AA105958, AA144007, AA986558, AA457910, AA389400, AA673056, AA153254, AA754678, AI021109, AA390813, C36687, T41571, AI011183, AI013356, AI011739, AI030260, AA924384, C44421.

45

SEQ ID NO. 6:

AF036717, U91327, AF036718, U56248, Z48795, Z99290, M30697, U58204, M24417, AF022983, M33581, AC004619, H64641, AA477478, AA369676, AA088359, AA057574,

AA683066, AA446279, AA332363, T09328, R80982, AA069486, AA410842, C18527, AA293033, H12730, AA287344, AA029631, R83063, AA061290, AA185993, AA880204, AA499308, AA183172, AA242360, AA792388, AA175587, AA277140, AA880395, AA899046, AA859550, C35363, C35702, C32682, F14140, T18049, C83149, T45787. AA924623, D47525, Z30723, AA897884, AA042465, AI009871, AA875198, C83016.

SEQID NO. 7:

X74116, AL022148, AC004548, AC000352, Z11664, Z78065, Z74028, AE000163, AE000750, X74229, D90700, R59414, AA176708, W02568, AA354664, R43017, AA973553, F10008. D61827, AA826300, Z41398, T77572, R40189, H85823, W86541, T17276, AA679337. X83357, AA184845, AA416260, AA475603, AA388692, AA764445, AA388689, AA219880, AA290020, AA388507, AA387267, C86741, AA414436, AA451259, AA413796, AA930916. AA793690, AA619447, AA062257, AA522026, AA816247, AA892032, AA817702, H33461. AA925507, AA849449, AI029236, AA247069, AA697975, AA882508, AA893258, AA698410. AA891755, AA698227, AA892782, AA899328, T04373, AA567522, AA698408, AA202615, AA141016, AA697974, AA697998, C61176, D69691, AI030205, AA586054.

20 SEQ ID NO. 8:

U08218, L38909, Y11095, AC002431, Z23069, S77418, U39060, L38580, AF053367, Z36506. M18102, J03624, AA102264, AA730686, H47968, AA357170, AA130974, C06054, AA626429, F00559, AA604528, AA383348, AA040127, N84965, D54884, D54883, R94309. AA373184, AA128091, W68194, H58283, R76347, AA343938, AA305144, AI049611, AA384516, AA720553, N57395, R97387, D52674, AA169408, H66293, AA456362, T74258, AA730145, AA101952, N86388, AA355003, AA307640, AA385679, AA354542, N99075, N83528, H87678, R84494, R35720, AA670111, AA186452, W32370, D55392, W05161. AA641280, AA120503, C77063, AA146393, AA620177, AA509478, C77481, AA427148. AA474531, W83304, AA207424, AA763436, AA958473, AA799243, AA493061, AA967792. AA145256, AA089338, AA756259, AA789767, AA980112, AA866640, AA914516. AA821675, AA466770, AA015387, AA816036, AA246546, AA941789, AA955779. AA997768, AA997534, T43805, AA956150, T18836, T23333, AA525666, T18787, AA800483, C64685, AA851367, C91730, AA143899, T23399.

SEQ ID NO. 9:

AP000056, U43491, Z74919, L81498, Z94054, AC002503, L81499, AA740188, AA630241. 40 AA974724, AA806907, N88859, N98242, H12649, R06485, R06511, AA546258, C76846. AA208416, AA959219, AA276381, W10055, AA462844, AA444278, W13447, W97802. AA542324, AA137880, AA269331, AA175695, W59029, AA003372, AA146233, AI045761. C93154, C94084, C94208, D68027, C12780, AA687005, AA080598, C12876, C12390. 45

AA848674, AA924440, T15031, AA451569, H35524.

SEQ ID NO. 10:

U25640, AA127328, H24207, H08275, AA283063, AA826096, AA417382, AA464874, W05562, AA453370, N51211, AA495859, R33871, H00927, AA623997, AA220442, AA178568, AA605493, AA394557, AA956116, AA999037, AA818246.

SEQ ID NO. 11:

AB001740, AF039956, AA581972, AA594539, AA236870, AA464410, AA237069, AA694199, AI038896, AA167314, AA577381, AA430117, N23143, R53610, W37647,

- AA724229, AA313202, AA860618, W16866, AA134966, AA255556, AA305224, R50528, AA844913, W32042, W37383, AA908394, W93357, W31353, R55254, N79251, AA456077, AA477700, AA477701, AA989005, AA455580, N32722, N22935, R50622, AA135047, R51941, T34020, T30416, T32309, AA883332, W93445, AA166984, AA026749, T08224, AA255572, W03768, AA033670, W31880, AA772832, AA230974, AA511207, W82274,
- 15 AA230365, AA671085, AA511230, AA606681, AA023735, AA444535, W98518, W14718, W85455, AA980318, AA137525, AA035840, AA692158, AA007919, W48013, AA444534, AA981497, AA002566, W48089, W99869, AA960396, AA960580, AA145259, AA145683, AA388960, AA389941, AA266272, AA145124, AA267212, AA959753, AA407991, A175818, AA943997, AA899476, AA899756, AA943998, AA955446, AA012783, AA924956,
- 20 AA892219, AA955331, AI012225, AA891436.

SEQ ID NO. 12:

U72994, AC004022, AF043493, U43252, U43251, U81830, U58105, U68242, Z93242, AL009029, M29872, U12980, M81118, M30471, Z56258, AF012943, AC004080, AC002563, AF024533, AF002991, Z63771, AP000042, AF064863, U80017, AC004087, Z55235, L05920, AA508139, N90748, AA450240, AA948158, AA828938, AA165115, AI003312, AA436633, AA419100, AA743442, AA961990, AA885286, AA861312, T84801, AI040166, AA494115, AA652324, AA181105, AA095541, R59256, AA503712, AA700364, AA603821, T60326, AA779097, AI023884, AA603785, H79111, W39526, AA506607, W94361, N66078, R01605, H22694, W86762, W99303, AA745640, AA678312, AA431870, W41927, AA874648, C92734, C23102, C53080, C91168, D65098, C32959, C50029, M80125, C34452, C83862, C24659, T21473, AA874720, C06696, W43071, AI043300, C53907.

SEQ ID NO. 13:

X94232, U90437, AC003052, U59809, AC004001, M95396, Z67884, X77486, U70051, X14805, AF022976, Z83823, X77485, J04171, AF036007, U05768, U88315, Z98048, AF036009, AC005179, U41277, U32517, AE001138, D64060, M84387, H29022, AA814221, N26314, AA935912, AA873506, AA608576, AA453605, AA232674, Z38725, AA772022, AA025212, AA318330, R48115, AA234084, H18508, N64543, AA970508, R36933, AA306944, H49559, AA325555, H85834, H89988, AA343974, AA648643, H65664, T62713,

45 H16554, N21122, AA351037, AA484621, AA221492, AA259314, C76383, C76336, AA607924, C76394, AA408562, AA921258, AI006352, W41405, AA153317, AA015435, AA027405, AA794066, AA498038, AA184222, AI011068, AA859614, AA899776, AA955080, AA799674, AA849652, AI009788, AA900928, AI007950, AA109392, AA753592, U92780, AA957632, AA567950, AI009495.

SEQ ID NO. 14:

AC000075, U66140, R14195, AA220229, T31199, R19104, R19148, Z46126, AA417619, Z45284, H14105, R84666, AA090321, AA350108, W52840, R48497, R13097, T66255, W44467, AA247676, AA198489, AA388175, AA261453, AA237111, AA790730, AA162394, AA816498, AI013729, AA684961, AA979759.

10 SEQ ID NO. 15:

AF069301, D10651, U11419, U11287, M91562, U90278, U72724, X57855, X79424, M16512, M64542, Z14152, AF016667, L01488, Z75955, AF024504, M13968, W67775, AA934587, AA617696, AA913577, AA628682, W74527, AA969876, AA995606, AA622402, AA027090, AA620556, AA085733, AA187157, AI031865, AA972318, AA897169, W79046, AA531124, AA733183, T90909, Z25096, AA721771, AA115089, T49643, R00622, N93780, R00626, AA365494, T71475, N74066, AA027130, T83325, AA115569, AA658299, T55344, T83700, AA426250, AA393863, AA282967, R08138, AI000112, AA807574, AA077926, AA397527, W87761, AA243026, R56368, H16371, AA958697, AA003997, AA008542, AA036229, AA397074, AA250467, AA260498, AA968175, AA253686, AA727785, AI019478, AA474978, AA543461, AA990281, AA245791, AA617042, AA015355, AA983015, AA982200, AA120064, AA462778, AA242574, AA986993, AA986911, AA882490, AA223057, AA543989, W65528, AA848318, AA874979, AA800547, AA945302, AA140994, AA991110, AA851120.

SEQ ID NO. 16:

25

Z68106, X14199, M14872, Z63497, M31670, AC002123, Z63498, AA280070, AA215687, H93207, AA070367, W95534, AA682436, AA741066, AA173269, AA641255, AA215688, AA724798, N23259, AA442155, AA634563, AA074699, AA642322, AA861347, AA283655, AI002587, W95419, AA357042, AA761253, AA197191, T54480, AA133029, AA378991, AA114599, AA219925, AA174327, AA003800, C86661, AA990433, AA277014, AA445101, AA671205, AI036728, AA241221, AA213304, AI035350, W08919, W36663, AA061406, AA144736, AA240583, AI006563, AA980152, AA250075, AA088967, W17488, AA098269, W10200, AA543712, AA755434, AI012680, AA820868, AA949519, AA391130, AA202576, AA979150, AA012391, AA539472.

40 SEQ ID NO. 17:

J03592, M24103, AB009386, U44832, J02966, M24102, U27316, U10404, X70847, D12771, D12770, J02683, J03591, U27315, M76669, U39779, M13783, J04982, X74510, X61667, M57424, L78810, AC004000, Z75206, U68723, Z75207, AF009661, X53264, J03320, U66060, AB011800, M77194, AE000021, L07268, AE000936, U03115, AF009663, AA582128, AA916851, AA576667, AA915921, AA916853, N58735, AA428106, AA427849, AI024255, H69807, H11315, N36980, H69597, AA826334, W05080, N37044, AA385873, N48222, AA394173, AA837522, AI002511, AA292870, T96300, AA360716, AA379604, AA862844, AA430455, AA479859, AA133899, AA669954, H92542, AA095298, AA995794, AI003667,

- AA320235, AA864472, T16369, AA588049, AA399159, AA148239, AA143432, AA962682, AA062646, AA335060, AA579762, R10999, AA858417, AA603170, AA292786, AA374867, AA191035, AA191500, AA599385, AA190396, T96301, AA535568, AA857439, AA977124, AA159515, AA719754, R61295, AA079690, AA577057, AA171709, AA552769, AA456451,
- N26291, AA132216, AA070196, H45529, AA160327, AA970357, AA477493, AA421297, AA017413, AA857677, T51717, AA081099, AA977849, N80148, AA335988, AA908779, AA377875, AA385959, R60668, AA335517, AA074035, N74403, N74349, AA573544, W86143, AA001378, R20658, AI025133, AA292257, AA421421, H56664, N39032, AA641715, AA020820, , AI047425, AA472466, AA590221, C79020, AA212086, AA071597,
- AA106338, W08130, W97930, AA592853, AA231046, W64197, C79418, AA823938, AA221509, C79656, AA245954, AA682101, AA855850, AA473492, W08536, AA260905, AI049102, AA185645, W89717, AA109639, AA733290, W33785, C76616, AA733222, AA519045, W34372, AA066569, AA691645, AA572427, C79871, AA255234, W63015, AA689692, AA688470, AA066196, AA403359, AA210393, C81440, W82152, AA563263,
- AA096538, AA008688, AA412918, AA674747, AA214774, AA823987, AA896527, AA756088, AA538420, AA124828, AA067750, AA671458, AA792196, AA855848, W14531, AA432423, AA562178, AA207523, C77610, AA073011, AA060218, AA691391, AA103515, AA245550, AA222057, C78107, AA608092, AA104942, AA408984, AA855192, AA144906, AA895345, AA796175, W41390, AA387888, C77993, AA144316, AA716803, AA276281,
- AA396852, AA637534, AA107667, AA119982, W09492, W09768, AA771341, AA144901, AA880477, C79311, AA717872, AA272656, C88492, C81442, AA981878, AA606217, AA605671, AA605977, AA605664, AA894180, AI008538, AI012445, AA945532, AA945028, AA012736, AA850423, AA891167, AA851948, AA964432, AA753449, AA542773, AI008780, AA022374, L38072, AA169924, T00115, T00217, F23046, F15046, C07018, T00696,
- AA753701, T00169, C07195, AA750404, W51726, C07173, AA109326, AA753730, AA109292, AA169908, W51717, AA675873, AA751451, F15031, AA842359, W91870, R95270, AA754092, AA751719, AA751718, AA509249, AA753934, AA952484, AA962878, AA751728, AA752131, AA754188, F13957, T41487, AA433419, AA471455, AA471706, AA754093, N60029, AA406919, D67349, AA754187, T41457, R88411, AA406840, AA754093, N60029, AA406919, D67349, AA754187, T41457, R88411, AA406840,
- 30 AA417423, AA470325, AA680491, AA754048, Z92686, T44319.

SEQ ID NO. 18:

U14003, AE000500, X66784, AF030178, U77066, M10122, M69106, X58072, Z99113, AF004104, AF004101, X55037, X78560, AC004595, X55122, AA481578, AA280143, AA481271, AA280144, AA736516, N79995, R82883, AA355987, AA571000, AA572293, AA738653, AA620225, AA855746, AA563168, AA530645, W40812, AA690944, AA839456, X61848, AA525648, AA141861, AA944854, C94212, AA394778, C83861, H76642, AA559379, AA943112.

SEQ ID NO. 19:

AE000500, AF030178, X66784, Z49405, M69106, M27174, X55037, AF004104, X78560, U51281, L17405, M10122, AC003106, X55122, X05553, AC002368, AF004101, U77066, U77456, X58072, AA481578, AA280143, AA481271, AA280144, AA736516, AA780050, AA359089, R82883, AA355987, AA571000, AA563168, AA738653, AA620225, AA855746, AA572293, AA530645, W40812, AA690944, AA839456, X61848, AA525648, AA944854,

AA141861, C83861, AA943112, AA957703, H76642, C94212, AA394778.

SEQ ID NO. 20:

5

10

Z99496, AC004518, AC004219, Z70204, J03925, Z66494, AC003053, U40072, AC002980, S52165, AB009051, M81884, AL021767, Z68164, M18044, J04145, AA383216, AA928132, Z19212, R84841, H83829, T71075, AA723804, H95329, AJ003438, W13441, AA199243, AA242009, AA272568, AA009230, AA880181, AA265864, AA124746, AA801108, AA874804.

SEQ ID NO. 21:

15 U20864, AL021246, AA430998, AA050776, AA104086, AA414390, AA920944, AA624117, AA788028, H36635.

SEQ ID NO. 22:

20

Z81462, AF029308, AC004069, AL010265, AL023828, AC004026, AF076274, U96110, Z71181, AF000265, U59919, Z80108, X66974, Y15994, D50366, D50367, AA034417, AA053882, AA883340, AA132258, AA770253, AA132362, AA132257, T62545, AA425357, AA721474, AA483037, AA724043, AA491390, W27229, AA047351, AA247867, C01523, AA548452, AA024660, R53754, AA795672, AA199329, AA986113, C81340, AA914941, AA548452, AA024660, AA548464, AA548464, AA548464, AA548464, AA548464, AA548464, AA548464, AA548464, AA548464, AA54864, AA548464, A

AA536730, AA819693, Z28994, AA142165, AA585560, Z26382.

SEQ ID NO: 23:

30

X60469, AC000394, L08048, X12597, D63874, U51677, S71186, D43920, U59897, AF026132, AB012725, L02751, D88509, M15825, AF017349, AB002361, L49022, Z82196, S68108, AC005266, M60450, M55514, AC004406, AF019611, AC000398, U28932, AF049850, X58671, AC004101, AC004687, AF062921, AF004294, M33190, M73049, U00665, L04132, AF062921,
- AF039845, L06147, M60052, X56007, Y00500, X77934, U26708, AL022333, AL021710, AF005720, Y13901, AC003952, U02506, U61387, AC004491, M81784, U00763, M80414, U84223, X87461, AF006040, U82468, AF005900, U29175, D26156, L13025, AL021127, X87329, Z82076, U25126, M30298, M34041, S80994, L13856, J03806, U23805, U20951, D82352, M38742, U05192, D76432, M21683, U19460, L48363, D78647, U26259, M55017,
- L06098, L19713, U88047, S67316, U47276, U28389, U18650, M85183, U07886, U00762, X54504, S67319, M89788, AC002995, AC000370, D84418, Z46757, AA167070, AA595202, AA166712, C05079, AA632468, T64162, H14432, AA095130, AA304799, AA541691, W38700, AA593710, AA889358, AA079129, T64291, AA143566, AA481443, AA991543, AA404267, H92212, AA134178, AA991539, AA991535, AA134179, AA248062, AA079130,
- 45 AA634670, D25983, H63841, AI025061, AA531274, AA366296, AA360842, F22618, AA366810, N88386, AA715713, T90564, N38949, AA045606, W07682, D55472, AA557452, AA600212, H89557, AA327933, D20752, AA083771, AA101746, AA563764, AA330028, AA987424, AA054783, D83849, R34185, D52874, R81133, D55190, AI034040, N26696, AA196344, AI041775, AA054719, M79245, H54611, AA813685, R43019, AA426205,

AA527046, R10011, R14525, AA053848, H85928, N85207, AA536117, AA497040, AA017619, AA093385, F08518, T70173, N83954, W28966, H98185, AA506305, R07822, T05370, AA652934, AA021126, AA236110, R93864, AA643226, N52274, AA046288, AA079860, H80808, R54825, W28236, AA537503, AA288865, AA914010, AA546178,

- AA895780, AA921471, AA509592, AI019685, AA792002, AA821727, AA466161, AA122542, AA387328, AA172425, C87724, AA895923, AA259495, W18813, AA960471, C87940, AA921284, Z74659, AA407850, AA675676, AA738607, AA619874, Z74640, AA881206, W97542, AA896321, AA106515, AA562363, AA797955, AA895398, AA123213, AA798375, AA467444, AA123743, AA611503, AA388279, AA516863, AA588982, AA169099,
- 10 AA727617, AA516854, AA560832, AA793428, AA120232, C80564, C81382, AA412789, AA607305, AA039151, AA415500, AA529643, AA080345, AA238459, C80723, AA467433, AA473693, C77886, C80539, AA915029, AI037742, W58796, AA591350, AA623692, AA792889, W91681, AA051589, AA060808, AA116289, AA267544, AA444983, AA498517, AA590755, AI021142, AA114557, AA270502, AA790432, C85885, AA123204, AA170036,
- 15 AA211953, AA438133, W79965, AA591380, AA624294, AA624917, AA386884, AA636994, AA386974, AA469668, AA795177, AI050523, C94974, C83593, C82737, N37420, C92269, H35981, AA818062, C73802, AA720311, D41136, F15112, D46038, AI035042, C83610, AA875659, D41283, C82754, H36775, H32221, D41870, AA860020, C25027, AA224679, AI008510, L46426, C08715, C28364, AA684640, AA941159, D22112, AA264452, D15403,
- H34930, D40666, D41146, AA750433, C20172, C74114, AA800271, C91616, D23315, AA800199, C27928, C73183, AA801317, AA955860, AA801633, D42374, AI043271, AA816245, AA439680, AA605835, AA540843, D40984, Z71869, AA979311, C70650, AI012063, AA392031, U94861, D15662, C08297, C11108, C11146, C31764, C34637, C37817, C47184, C52269, C54739, C58131, C58618, C36053, AA898501, AA951524, T01370, D40028,
- 25 D48397, D72544, D72553, AA963561, M89319, D24210, D23745, D72761, C59680, AA820741, T01827, D42962, AI035194.

SEQ ID NO. 24:

30

Z93928, U13881, U70475, X89811, X81456, U20532, X04724, J00748, M25585, J04807, V01243, M12913, AC003074, AE000626, AA662803, AA886335, AA922036, AA878578, AA161103, AA485405, N52768, AA643750, AA910277, N52783, AA657904, AA631339, AA158820, AA485566, N57590, N57604, AA127055, T25136, C21312, N50304, AA127056, C01240, W65459, AA416662, N48671, AA759070, N29058, H06159, R97183, F20369, W74006, AA210618, AA825287, T15787, R67105, T21030, W74006, AA210618, AA825287, T15787, R67105, W74006, AA210618, AA825287, W74006, W7

- W74006, AA210618, AA825287, T15787, R67195, T91328, H06159, R97183, F20369, W74006, AA210618, AA825287, T15787, R67195, T91328, H06144, AA608823, W74282, T52487, R17253, T50700, AA710096, AA793203, AA106190, AA674919, AA691210, AA709564, AA688482, AA709549, AA286083, AA637633, AA863920, C86279, AA940262, AA675156, AA986540, AI006503, C78301, AA413934, W33763, AI035505, AI036707,
- 40 AA498683, AI046409, C85159, Z84147, AA893230, C06683, C06682, C06639, C06625, C06581, AI029119, C06813, C06751, C07055, C06613, C06863, C06604, C07135, C07117, C07030, C06535, C07018, C06636, C06511, C06605, C06612, C07058, C06908, C07105, C06559, C06724, AI014020, C07031, C06541, C06767, C06618, C06546, C06906, T75705, C06519, C06802, C06669, C06655, C06560, C07009, C06616, C06506, C06510, C06652,
- C06750, C06806, C06950, C06971, C06974, C06608, C06788, C06890, C06536, C06778, C06831, C07167, C06840, C06946, C06513, C06642, C06914, C07148, C06600, C06925, C07008, AA851621, C06514, C07107, C09614, C06525, H31786, C06858.

SEO ID NO. 25:

AF019412, AC004404, X06166, M65066, AF006040, R13835, Z43662, F07559, R87914, AA323632, AA806551, AA351660, AA404545, AA693604, T77601, AI039071, AI017031, AA489394, AA664956, W73671, AA057240, AA129710, AA342548, T93900, W73623, N53667, AA725874, AA804595, AA907520, W56587, H68702, AA323997, T64725, AA884894, AI022045, R02181, AA279068, T19926, AA733025, W51682, AA822148, AA138982, AA267343, AA709923, AA423781, AA185617, AI006077, W82491, AA062192, AA270251, W54396, AA718043, AA451528, AA387186, AA388304, AI021006, AA458323, AA734717, C72433, AA940925, T26042, AA998047, AA651398, AA712850, AA979380, AA851912.

SEQ ID NO. 26:

15

D38548, M59201, U67559, L29453, L27707, X52142, M58326, U49350, AL021806, AA323338, AA287807, AA378829, AA826533, AA524104, AA928732, AA127169, AA515984, AA962233, AA332628, W90207, W55983, R98570, AA937512, AA190722, AA409809, AA027693, W15854, W82920, W14373, AA624765, AA958909.

20

SEQ ID NO. 27:

AJ005458, S90449, S74572, D17412, D17411, U09218, D45860, D45861, D45859, S87759, S87757, AJ005457, J04503, D28117, AL009051, AL022603, M86359, Z84489, AA625572, AA431963, AA180531, AA180520, AA379401, AA164383, AA135096, AA769851, AA465249, Z19798, Z20951, AA625571, AA854244, AA625051, AA193078, X85622, N88139, AA179618, R33159, R79167, AA613881, AI042584, N83569, AA360057, AA011060, AA154560, AA276352, W54488, W54415, C87503, AA549511, C85223, W08528, AA656770, AA97692, AA855719, C85235, AA407160, AA516930, AA240636, W41595, AA475660, AA914011, AA537063, W42402, AA033036, AA644993, AA517242, C85347, AA525713, AA962971, AA998206, AA394677, AA998046, Z71861, H31577, C19204, AI045015, R65006.

35 SEQ ID NO. 28:

Z84812, X56744, AB007445, AE000947, AF038854, X98801, AB013487, U40575, AF002992, D79209, U33840, U55042, AF000168, U76615, L28716, U31977, L25548, L23646, AF037987, AF037988, AF037986, X16944, AF037455, X61920, AB004061, U21050, K00824, Z47005, U02478, L00627, Z74150, M35657, AF037984, X15477, AA070233, AA768890, AA704738, AA491544, AA747198, AF012388, AA453482, AA393092, AA351249, F08069, AA576778, C18739, W02878, AA260806, AA792752, AI037115, AA107079, AA606798, AA267705, AA833235, C79173, C79128, C78861, AA655446, AA254466, AA674661, AA212535, AA008734, AA879626, W41067, AA619200, AA087347, AA138013, AA547261, AA002419, AI021096, AA275231, AA433044, AA221284, AA822351, AA014416, AA986428, AA221500, W64585, AA739293, AA450489, AA616218, AA673749, W09948, W80148, AA058081, AA111583, AA109879, AA516815, AA759685, AI047206, AA036090, AA475741, AI044800, W00180, AA997260, AA439137, AA996688, AA964874, AA750540, AA749776, C36210, R03414, AA520514, AA519480, T01878, AI026368, AA531657, H77262, T01090, N38684,

AA965082, R46894, T37779, T37753, T38689, C24841, AA519236, T38077, N60531, C56520, C39038.

5 SEQ ID NO. 29:

M37030, AF035811, AF073312, X61452, AF061152, AF006988, U59632, AF061153, Y11593, U74628, U08103, Z98866, Z69710, U52918, U52919, D89208, AA262134, AA262133, AA459232, AA261944, AA465590, AA480946, AA252838, AI003777, AA322577, W05228, AA323006, AA451780, T09445, R55858, AA324456, R87202, F11317, T30876, AA322117, AA357101, AA853747, AA325651, AA683394, W69297, H46499, AA055270, AA350932, H14250, AA024634, AA234283, L44408, AA604064, N55150, AA462547, AA146273, AA789450, AA873999, AA791509, W64849, W85596, AA444524, AA572240, AA032529, AA469889, R75180, W53226, AA020101, AA762779, AA869090, R74897, AA238408, AA867045, AA415500, C78795, W54807, AA266548, AA511393, R74879, F14565, C57606, C57776, C59287, AA539919, D35810, C65610, D36489, D34951, AA950835, C66232, AI012506, C62041, D37043, C67579, AA696662, C60241, C13766, C69199, AA685788, D66025, D66320, D66176, AA550227, D66297, C57131, C58693, D65593, AA800156, D65694, C64990, D69331, D65426, D68791, D66117, D66340, D66241, C12616, D66000,

H76149, D65431, H34478, D69657, D65625, M89459, AA819212, D69682, D70222, D65711, D65685, D69823.

SEQ ID NO. 30:

AL022394, Z54200, U12024, AF025391, S73606, L08068, U01053, AP000046, AA282633, H83341, AA744757, AA047741, AA975917, W45279, W90155, W79733, H01158, N47513, AA688093, AA865203, W90027, AA595381, AA054203, AA478596, AA100549, T806689, AI049820, AA047691, AA969720, AA086374, AA159414, W39756, AA159315, H8369530, AA909221, T06258, AA969838, AA013361, H05751, H05858, AA665540, D12197, H01159, AA933811, D12219, AA282525, C05204, N47512, R57383, F18424, D79284, W92778, H18813, H20386, N77238, R84635, AA204675, R80129, W95005, T85150, AA523436, AA743656, T84782, W95004, R55724, AA572180, AA790119, W96964, AA420091, AA169954, AA623914, AA623971, AA681631, H32698, AA735717, AF026318.

SEQ ID NO. 31:

X17644, AC002310, U95742, L37045, Z92835, L38828, L07843, X56910, AF025468, X62379, X53599, X73911, X57331, U25851, AC004217, AA488455, AA112360, AA085969, W39758, AA450255, AA385764, AA306361, F08788, AA133458, AA331334, AA357236, N83925, AA319543, AA907882, AA295194, AA780612, AA805179, AA091629, AA233394, T52577, AA352655, AA211401, AA223759, AA187286, T51341, R66786, H17719, T08767, AA865254, AA761172, AA219613, AA169748, AA761180, AA878125, M62053, H97773, AA775004, N47792, AA580452, N77885, H20947, R39533, R16161, AA916422, AA446700, AA918094, AA960808, AA873720, H84809, F10962, D78656, AA917945, AA404653, W67540, AA430019, AA643603, AA603207, AA446573, AI014813, AA988575, C14668, R15819, AA769334, AI041235, R46057, W19901, W55959, H60522, AA219635, AA133573, AA406042, AA670040, AI022461, AI005124, AA931798, AA918010, AA904626, AA708261,

AA721503, AA279498, R46796, R12508, Z40330, AA455678, AA054518, N36991, AA879059, AA683027, AI026067, AA669953, AA088745, W55958, AA396956, AA555800, AA154170, AA981643, AA071792, AA066012, AA981626, AA154214, W14994, AA197464, AA109909, AA260252, AA416413, AA389313, AA204468, AA109518, C77638, C77886, AA183642, AA415277, AA987053, AA138979, AA145942, AA666768, AA795476, AA197732, AA815895, AA106800, AA657049, AA096871, AA671011, AA062392, AA474044, W46023, AA959293, W35880, AA516832, D67123, AA495624, C74197, D68097, C24919, D65118, X73715, R30624, AA586106, AA819013, W43432, AA799892, AA858586, AA142059, T44911, C92734, AA952406, AA495523, AI030315, AA676129.

10

SEQ ID NO. 32:

```
AF017364, D78609, AF011331, AJ223316, X69524, AF019907, AF009411, AF009413.
U44430, AF069324, AF001501, AF009959, M99575, Z54362, U60149, AF029349, AJ005572,
Z28367, Z97178, D83476, U62398, AF001688, U50847, AF022732, AF045770, AF019887.
AF006628, L41731, AF026216, U74296, AF016371, AF006627, AF020187, AB002739,
AB002741, AJ225108, S80963, U19482, D83352, AB002728, U38894, AF001522, U46118,
AB002794, U82480, AB002730, U10355, AJ005969, AF022733, Y15794, U14936, AF019043,
S51033, U58090, AB002777, X71980, AB015609, U25846, U55848, Y14339, AB002533.
U43527, U48288, AF004947, L10111, U35364, AF058796, U08214, AF023132, Y11879,
Y13865, U33214, U41060, AF048691, AB005545, M69042, U37699, U40802, Y09455,
X77990, U64609, AF071010, L49502, AD000017, S68736, M82977, AA121558, AA927567,
H92975, R67157, AA039781, AA078892, AA454159, AA354002, AA934648, AA356829,
H58224, AA316922, AA977788, H78570, AA953223, AA992339, U30151, H48430, D82132,
D57213, C75478, C18748, C75472, C75170, D82799, AA362857, AA374918, C75020,
Z28355, AA357303, C05952, AA301748, D63057, D82421, C75176, AA669404, C05853.
AI016032, C16591, D59976, C75108, D57346, C75118, C19093, L48852, T27986, U30155,
D62770, AA317816, AA365617, D52369, T11092, C06140, AA357401, N93837, D51124,
N75780, C18589, AA083604, AA471140, AA354268, C06018, Z21605, L48853, H90908,
AA188141, D57197, AA573490, AA587755, AA070452, AA302374, AA303144, AA352846.
AA374865, AA976510, T69957, D60150, D80615, N71594, C05868, C14789, AA355029,
H73203, AA113291, AA303336, AA358041, AA301756, D59695, T27384, C18745,
AA308574, AA271637, AA549023, W85152, U31322, AA106372, AA795651, AA457999,
AA681967, W49394, AA221922, AA276547, AA242387, AA061250, AA146431, AA021897,
AA596536, AA183239, AA271248, AA389067, AA871189, AA145354, W09313, AA030290,
AA871865, AA124414, AA052617, AA871752, AA544610, AA117188, AA869120, AI049175,
AA266008, W98973, C76233, W66614, AA199206, AA221363, AA254150, AA268605.
AA867829, AA185301, W12393, AA073318, AA174921, AA212810, AA254516, AA387162.
AA596462, C77430, AA986671, AA062512, AA388966, AA555783, AA177472, AA106040,
AA553155, W30212, AA286196, W12857, AA717172, AA065453, AA267923, AA242444,
AA396448, AA217994, AA111828, AJ005971, AA123661, AA114501, AA752812, R47079,
AA754144, AA509249, AA509214, AA754103, AA840962, AA840909, AA754200,
AA509237, W51718, AA753300, AA509309, AA842677, AA752086, AA754036, AA753093.
AA754159, AA754172, AA754167, AA751994, AA751845, AA751998, AA752003.
 AA751816, AA752422, AA751932, AA751561, AA753150, AA754119, AA840970.
 AA752005, AA842862, AA752043, AA752907, AA752718, AA752020, AA840977,
 AA752035, AA752016, AA753086, AA109333, AA701820, AA752034, AA547916,
 AA840986, AA547812, AA841367, AA751857, AA406980, AA471673, AA842464.
```

AA840972, AA842001, AA751834, AA753165, AA751921, AA754646, N94700, AA753087, AA964820, AA756947, AI043420, AA180549, AA109417, AA752726, R46936, AA509142, R47062, R47121, AA751866, AA842064, C39627, AA752073, R46926, AA751679, AA052011, AA751805, AA738551, AA754140, AA430916, AA842660, AA841358, AA840999, AA753219, AA406761, AA751829, AA751919, W06556, AA753085, AA752022, AA753149, AA753147, AA751841, AA753185, AA180648.

SEQ ID NO. 33:

10

U10079, U22176, Z97192, X86553, D16432, Z68908, X98417, X97752, AC005176, AC004235, AA211771, AA019927, AA621920, R49915, AA436746, D81089, F07201, AA279576, R61642, AA363761, N90952, AA351423, W85802, AA827923, N41673, AA452942, AA252094, W95240, AA188552, T99151, T53177, AA223851, AA677535,

15 AA770162, W85753, H58876, AA017014, W57195, AA117575, W41201, AA415215, AA797940, C76608, D16065, T18290, D16046, AJ225545, AA713066, AJ225477, D22650, AA944738, AA849372, T25220, D23185, D22651, D23309.

20 SEQ ID NO. 34:

AF041845, U48436, AF012624, L76569, AF025020, AF060179, U51281, Z37092, L12249, D83476, AF017434, AF062008, Z97198, AP000046, AA367417, AA852175, W67669, AA303139, AA243251, AA896193, AA881167, AA989888, AA683969, W62376, AA250652, AA512820, AA237481, AI036738, AA547433, W97958, AI036611, AA656921, AA892380, AA926074, D72379.

SEQ ID NO. 35:

5.545 5.154

: . 30

AF069301, D17030, D17201, S80107, M15888, U09205, J00127, J00128, M64982, L11356, M58569, AE001140, D10667, M77812, AF001548, U39850, AA188052, W28824, AA380387, AA393863, AA426250, F00243, AA157205, R00525, AA137720, AA244463, AA118832, W97106, AA674322, AA645183, AI020701, AI019310, AA717623, W48327, AA153061, AA103723, AA800548, T46478, AA751512, C10724, C60506, AA819627.

OF EXAMPLE

日本区分配管路域中 1000元代

SEQ ID NO. 36:

- 40 U81160, U35246, U66865, AF036234, Z71178, R52780, AA336715, AA337057, R12336, AA296712, AA291962, AA336501, AA387806, AI020063, AA109010, AA867718, AA606883, C11880, AA698152, D65730, AA851373, AI028830, AA941242.
- 45 SEQ ID NO. 37:

SEQ ID NO. 38:

Z46933, AC003957, X64346, U18759, L31881, U18761, J04123, X79489, U18760, AB012234, U11280, Z35865, AC002461, AC004780, AL008980, Z79601, U23404, Z74859, D89119, AC000387, M76665, Z48149, AA948725, AA226732, AA232882, AA232883, AA767922, W39443, N40268, W06854, AA337266, AA319281, T08800, AA094683, AA151630, T33776, AA151682, AA384011, B21202, AA806313, AA047744, AA411284, H41222, X40145

5 AA151682, AA384011, R21292, AA806313, AA047744, AA411384, H41338, H49115, H50377, C89065, AA221399, AA163971, Z36313, AA120075, W64578, AA673947, AA285838, AA607874, AA798884, C86947, W62715, AA790168, AI037229, AI036718, AA920062, AA866467, Z30824, AA610965, AA907958, AA495425, W43775, C41467, C20235, C20223, C19643, C20439, C68506, C73712, C20236, AA978809, M89274, D74720, AA712627, D74758, C19867, AA816719.

SEQ ID NO. 39:

L41560, Z66499, AC003970, AE001177, AF051320, K02212, D88539, U35665, L41069, Z38118, AA744773, W67994, AA046574, AA130298, N71111, R77986, H61835, AA134115, AA722572, N51491, Z36854, H61836, AA458506, AA459607, AA862531, W68186, AA046661, AA459381, R77891, R60953, AA733213, W05472, AA442998, AA136770, AA127983, AA229166, AA741465, AA003716, AA204457, W34842, AA097555, AA674958, AA770799, W81850, AA623806, C78185, AA002533, A1030850, D26771, AA024818

AA770799, W81850, AA623806, C78185, AA002533, AI030850, D26771, AA924818, AA848998, AA923967, AI045386, H32633, AA956916, D86678, T14138, AA925473.

SEQ ID NO. 40:

25

AB002307, X06289, Y00222, U59322, U28964, X61754, AJ004801, U13913, X79339, AA164880, R02386, AA219744, AA324396, D82199, AA113090, AA305260, AA171458, R59748, R35620, AA326344, AA227875, AA366276, H29212, AA505691, R78747, AA406622, AA020232, W64555, AA450476, W44167, AA049918, W64627, R75474, AA517492, AA612452, AA711884, AA212469, AI048148, AI046831, AA671392, AA855606,

AA517492, AA612452, AA711884, AA212469, AI048148, AI046831, AA671392, AA855606, AA016843, AA031134, AA208052, AA619148, W34918, AA851114, AA901667, AA054812, AI001233, AA955131, AA943821, AI008608, C72506, AI001373, AI001376, D25096, D21962, AA997901, AA824936, AA998885, AA824820, AA998125, AA859586.

35 SEQ ID NO. 89:

AF069301, D17030, D17201, D10651, U90278, U11287, U11419, M91562, U28411, J00127, J00128, L11356, AE001140, M58569, U72724, M64982, AC002082, AF016667, M80474,

- 40 X57855, M64542, X79424, Z75955, AF024504, M16512, M13968, M96930, W67775, AA617696, AA934587, AA628682, AA913577, AA969876, W74527, AA995606, AA622402, AA027090, AA426250, AA393863, AA620556, W79046, AA085733, AA187157, AI031865, AA027130, AA115569, AA897169, AA972318, AA365494, AA282967, AA531124, AA733183, T90909, T71475, Z25096, T83700, W28824, AA721771, AA188052, T83325,
- 45 AA115089, T49643, R00622, R00525, R08138, N93780, R00626, R00521, W67774, N74066, AA157205, AA380460, AA658299, AA380387, T55344, F00243, N55668, AA353778, AA815401, AA399269, AI018748, AA412669, AI028745, AI025290, AI000112, AA813227, AA807574, T61743, T74407, AA397527, AA077926, T60362, AA344542, H67459, T73868, AA026737, T95711, N33594, T72304, W87761, T71715, T72978, T74485, H58121,

AA382695, T68055, T72803, N76269, AA243026, AA003997, AA250467, AA968175, AA260498, AA958697, AA397074, AA008542, AA036229, AA253686, AI019478, AA727785, AA543461, AA474978, AA990281, AA289292, AA277873, W91218, AA617042, AA245791, AA980640, AA015355, AA153061, AA467514, AA983015, AA244463, W97106, W48327, AA118832, AA717623, AI020701, AA674322, AA137720, AI019310, AA645183, AA066905, AA575384, AA690248, AA030780, AA717411, W89322, AA103723, AA145999, AA543989, AA223057, AA982200, AA462778, AA242574, AA882490, AA986911, AA986993, AA450716, W65528, AA675395, AA120064, AA848318, AA874979, AA800547, AA800548, AA945302, AA991110, AA140994.

10

SEQ ID NO. 91:

AC002406, AF004731, X59720, U38194, Y13577, M16506, M34435, X92479, AL021841, U04322, X06487, AF022814, Y12819, U19536, AA161279, AA313555, N73050, AA349808, 15 R55892, R12074, AA306333, AA808521, AA112736, AA374663, R11472, T07091, AA332703, N55712, AA128949, AA220981, W23692, T34200, T04966, AA442929, AA223449, AA304362, W05553, AA306300, AA121411, AA126735, AA115299, AA127895, R40004, H16408, T91226, W07681, AA977084, AA282371, AI041091, T53269, AA907901, AA405604, AA975477, AA656943, AA415300, AA547177, AA152969, AA727497, AA008280, 20 AA510078, AA874162, AA675276, AA815601, AA125094, AA170008, AI036039, AA546442, W98981, AA711690, AA855201, AA636479, AA220116, AA240658, AA217941, AI046964, AA822123, AA693080, AA212971, AA674507, AA028682, AA111514, AI042785, AA656185, AA027752, AA511695, AA647841, AA693239, AA511469, AA146356, AA288692, AA623827, AA681271, AA414089, AA989996, AA612104, AI007318, AA118257, AA422575, W55838, AA738879, AA756022, AA867694, AA870171, C19406, H32373, AA577635, WARREN OF THE WARREN OF TH D48085, AA925604, AA415115, D47710, AA246139, D48681, D46931, D36706, AA957746.

30 SEQ ID NO. 93:

一位大连接 网络特拉拉克工作

AF039700, AF039699, U66201, U66197, AF020738, U85773, Z46966, AC004301, U86662, W22160, AA860926, AA348243, AA551799, AA327309, AA344913, AA121174, AA121198, AA001561, AA040802, AA215903, AA826741, W32428, AA888147, AA403143, AA946650, AA969632, AA872272, AA903406, AA860208, AA577174, AA514777, AA160827, AA041240, W45005, AI005324, AI005204, N72025, AA806381, AA725024, AA262229, AA927863, AA172158, AA039536, R02514, W47466, AA587486, AA629243, AA814296, AA877455, AA435587, AA393904, AA022495, W47341, N35888, N35076, AA974988, N21678, N72024, AI040354, AA804907, AA573297, AA416559, AA401079, AA417295, 40 AA873216, AA824270, AA759038, AA757360, AA628544, AA618498, AA503727, AA460961, AA461270, AA813115, AA759377, AA770473, AA262162, AA416815, R82551, AA948291, AA416734, N98472, AA431486, H30248, AA161105, AA852281, AA616807, AA106439, AA711859, AA049011, AA016868, W61547, AA009071, AA543280, AA467482, AA106301, W83172, AA103139, AA000268, AA014223, AA138067, AA230758, AA833479, AA014768, AA276740, AA038869, AA797372, AA185487, AA881111, AA763419, AA790448, AA469884, W77724, AI048515, AA007762, AA497479, AA033481, AA475425, AI047077, AA068686, AA796056, C87249, AA921560, W87202, AA542324, AA967316, W62989, AA530735, AA218431, AA591243, AI047609, AA692425, AA966976, AA856298, W20935, AA111190, AA230661, AA840087, AA089210, AI035925, AA824205, AA793845,

AA239210, AA711873, AA645119, AA957268, T00613, C82607, AI012760, AA801145, AA859865, AA859542, C83463, AI009035, AA956139, AA859448, AA660819, AI009631, AA874930, AA801144, H32878, AA125602, Z32602, C68472, AA943364, AA785775, Z33974, D46069, AA660859, AA955567, D45997, Z32603, AA842765.

5

SEQ ID NO. 95:

11 U 77/U74UJ

X99728, X59048, AF039698, U48696, S78798, U39066, U66300, AF045432, Z97178,

AF027174, AB000098, U52868, U37573, U65376, Z49980, AF033565, AF033097, S83098,
G29060, U34048, AJ001103, G29058, U44386, X99051, U41811, AF033096, X71132, X69525,
U64599, X99055, Z26252, U18917, U19886, AB011020, U48364, AF001549, X03234, J00184,
Y12573, U48363, Z84721, U25973, AA179517, W96224, AA724586, AA536163, AA976337,
AA194270, AA279466, AA776726, AA483454, AI040976, AA431450, AA970887, AA877479,
AA894770, AI000871, AA431579, W95840, AA725824, W68289, W96319, AA179564,
AA948024, T83956, AA688086, AA478185, F21973, AA858279, AA478027, AA366735,
N88601, N55698, N88782, AA096066, AA095641, N84829, H58760, AA471338, N89520,
N84830, N83991, AA247964, N83168, N84048, AA096046, N84718, N86694, AA247827,

- N84712, N83992, N83993, N84855, N88518, AA093224, N87989, AA095359, N87898, AA093861, AA089553, N88496, N56555, N84828, N56118, AA093897, AA089554, N84016, AA247965, AA215911, AA215908, N84723, N55658, AA094237, N84602, N84733, N84764, N84561, N84721, N83229, N55681, N55684, N84873, N55669, N84874, N55641, N84734, N84736, N85900, AA249064, N84781, AA095435, AA249712, N88018, AA093577, AA092086, N85031, AA095475, AA093313, AA095511, N89307, N85930, N84740,
- AA434697, AA237234, W62735, AA637114, AA033103, AA790334, AA833155, AA403954, AA466835, W84285, AA637841, AA237989, AA289419, AA710335, AA691719, W89930, AA616952, AA212922, AA571119, AA098011, AA896312, AA606285, AA285913, AA218382, AA822840, AA940345, AA259992, AA821517, AA470225, AA521758, AA607378, AA914347, AA108575, AA509884, AA162724, AA015378, AA161959,
- AA103752, AA794191, AA208274, AA798889, W33307, AA016594, AA387823, AA945793, AA997649, AA964381, AA944107, AF041408, AA933116, T14972, AA754150, AA996765, W43831, AA257763, AA842533, R62058, AA848534, AA963515, AA752422, AA848535, AA660164, AA754139, AA660165, AA471470, AA675874, AI043379, AA842214, L19203, AA161703, AA161711, AA754373, AA754181, AA180582, AA754148, AA754159,
- AA842305, AA180607, AA933288, H07815, AA791314, T00021, R47112, H07828, AA555441, AI011717, AA752718, AA109452, AA257280, AA892675, AA754224, AA406790, AA509100, AA109326, N94683, N82177, AA842503, AA842176, AI010119, W91818, H07423, AA842216, C30674, AA685067, AA509309, AA509163, D43402, AI012505, F22972, H07842, AA433419, AA109292, C07229, W51723.

40

SEQ ID NO. 97:

AF053974, X96705, U22237, AC004260, Z66517, Z77134, U32723, U35657, AC002080, J04355, U82202, Z35601, K01711, AL022598, M20865, AA374801, AA306449, N48227, H64263, T51666, R52634, AA318276, AA706990, AA551148, AI028232, AA581365, AA694052, W87336, W47503, AA554571, AA607765, AA154690, AA924880, D23509, AA067503.

SEQ ID NO. 99:

Z22176, AL010226, U67566, Z96798, U09956, X56775, Z97339, Z70206, X56260, U67594, AF052832, X52572, Z98598, AC002294, U41554, U66261, M97618, U00149, AC004745, AC004255, Z72888, Z72846, D90759, J03297, M36386, Z65781, U49960, AC003096, AC005238, M20147, AF014960, X07289, M80571, Z71527, Z68277, Z81066, D90852, Z68105, Z99165, U07065, Z92540, AC002432, AC002351, D14533, AL021635, U14566, Y00067, Z73971, U53502, L35848, U10343, U59711, U33934, U28487, M76702, M10066, Z65782, U86962, D85428, U33933, AE000221, AC004135, U62293, X64461, U15591,

- D90758, AA047345, C75194, AA152132, T39704, AA404974, AA313387, AA377300, AA773368, AA362228, AA047344, AA247511, T40740, W38779, AI050068, R13549, AA346462, N50523, W27312, AA551073, AA306922, AA034218, AA496544, AA975271, AA033534, AA155696, AA423826, AA989046, AA115605, AI024233, AA620978, AI033843, AA115471, AA115213, AA134882, AA559320, AA610042, AA135338, AA248692, R70913,
- AI022302, AA046587, AA307285, AA781036, AA692567, AA681336, AA549004, AA563487, AA177677, AA915150, AA153059, W41094, AA445202, AA498066, AA409473, AA177599, AA562914, AA266872, AA656061, AA896022, AA117475, AA738723, C77886, X61844, AA674119, AI045314, X91731, C71913, T02509, AA925983, T03973, T02602, AA753121, D48485, AI009917, D24757, D24759, C29123, C28355, AI011347, AA695453, C70381,
- H36637, C23428, C62223, AA696075, AT000376, AA264575, C63593, AA440992, C48257, AA264245, C23391, AA392990, AA949994, R90723, D47512, C23189, C28792, AA264789, C23091, C23221, C23281, C23486, AA651405, AA791285, L47867, AI030465, W23399, AA802503, C23380.

设备经过 新原体设备

1. 在15篇 MOSE (April)

SEQ ID NO. 101:

25

45

L41679, AE000664, X70810, M97702, AF007261, AC004052, Z70040, U95973, AB006205, U18340, AC004281, M57977, AF015262, X78823, Z48930, U92453, AF047660, U45982,

- Z22178, U18338, Z83107, U18337, Z69907, U84551, Z81369, AC004136, U12769, D16355, U06755, AA353592, AI017212, Z20462, AA084913, AA322347, H67555, H15054, R60319, AA782925, AA113206, R41988, H09807, H68176, AA325657, AA635184, W00737, R52825, R44297, Z41301, R34253, AA351933, F05557, AA382460, AA861207, AA688169, AA813930, H97901, AA504297, AA907592, C17555, AA437174, R80561, AA485838, AA287335,
- AA297740, AA489714, AA722140, AF017648, AA804212, AI015606, AI005291, AA913492, R75960, AA343951, AA334986, AA292286, AA258087, AA025640, R66450, AA843675, AA865754, AA527317, AA232238, N30011, R73028, H27866, H12877, R72656, N69992, AA481805, AA138080, AA615376, AA265134, AA140400, AA608248, AI047363, AA146296, AA930813, AA575341, AA388659, AA462933, AA958463, AA656418, AA589980,
- 40 AA869843, AA087361, AA792077, AI006571, AI021357, AA690956, AA895651, AA110646, AI046734, AA655927, AA415593, AA200384, AA162290, AA549901, F15585, AA955266, D33207, AA540536, F14406, R03451, AA850731, W06651, D33188, C92137, N97695, D34445, AI029865, AI010659, AA926162, AI045900, AA859190, D32367, AI043939, AI028821.

SEQ ID NO. 103:

AF033565, U52868, Z97178, S83098, U44386, AF027174, U37573, Z49980, AF033096, AF033097, AJ001103, U34048, G29058, G29060, U41811, X99051, X99055, U48697, D86970, X65215, Z35641, L12469, X80164, Y12256, S56922, AA442655, AA768893, AA779510, AA632212, W88679, T52585, AA132101, N86694, AA093224, N83993, N84718, N55681, N83992, AA471338, AA247827, N56555, N84712, AA093861, N84048, N89520, AA094237, N83991, N84830, AA096066, N88496, N84721, N87989, N88601, AA089553, H58760, AA215911, AA089554, N56118, N83168, N84855, AA247964, N84016, N55698, N88782, AA095641, N84602, N84828, N84733, AA096046, N84723, N87898, N55684, N84561, AA095359, N84874, N85900, AA093897, N88518, N84764, N84722, N55669, N55641, AA249064, AA248551, N84736, AA215908, N55658, N85031, N84873, N84829, N84711, 10 N84734, N84735, N84563, N56179, N84720, N55697, AA090034, AA248055, AA214702, N85930, N84562, N55639, AA247965, N87317, N55653, AA263076, N84601, N86441, AA248540, AA210625, N55717, H54881, AA471140, N84665, N83229, N84714, AA216240, AA285245, N84921, AA095435, N86439, AA093577, N55721, AA247828, W64759, W85389, AA170187, AA017792, AA020604, AA733792, AA208274, AA755285, AA717172, AA866729, AA286214, W10227, AA166319, AA217994, AF041408, AA933116, AA933363, D21922, D22036, W99281, AI010427, AI014137, AA957307, AA866225, AI012477, AI008733, AA996445, AA925786, AA818841, AA924371, AA849942, AA925635, AA999172, AI011706, AA955950, AA963429, AA957899, AI014042, AI010357, AI012277, AA946050, AA997129, AA998014, AA899344, AI009863, AI010298, AA859978, AI045178, AI012192, AA956403, AA998620, AI009737, AA958000, AA859266, AA964570, AA944452, AI013760, AI043606, AI045050, AI010101, R46936, AA900052, AA900076, AI008975, AI045193, AI012602, AA899521, AI009352, AA946359, AI009797, AI009148, N99339, AI030877, AA012039, AA754231, AA817994, AA859429, AA875121, AA900424, AA924214, AA945660, AA964165, AI009800, AA800835, AA858619, AA924931, AA933168, AA945755, 25 AA946378, AA956107, AA957339, AA998987, AI013389, AI043647, AI043787, AI045635, AA660039, AA754049, AA963340, AI007843, AI011499, AI012461, AI044977, AA924075, AI044978, AI045381, AI045262, AA842888, AA901302, AI009757. 一、的微、加加。

SEQ ID NO. 105:

30

李高麗性 用用物门类

U23946, U73168, D50912, U35373, D83948, U50839, AF042857, AF069517, U97008, Z68013, Y08502, U76753, Z28389, AA570533, N23866, AI049957, AA889659, A699426, AA782487, AA767408, N29616, N41616, T03540, AA436772, AA194028, AA724105, AA648939, 35 AA904276, AA907774, AA192891, AA349791, AA677951, AA593262, D19618, AA437179. F09819, AA659891, AA456007, AA165466, AA961715, AA907700, Z40342, R45218. AA975284, AA563802, AA888076, AA670261, T31362, AA150773, AA994080, W73892, W76177, T33106, R45829, R37062, AA421795, R42942, AA337186, AA194215, AA192645. T10051, AA877988, AA150882, AA782825, R60960, AA746150, T10050, AA953465. AA249486, AA369780, AA367141, AA917711, AA165366, AI016061, T32698, AA382385, R21564, N74644, AA383548, AA773506, AA361795, AA359822, R24955, Z19624, AA129882, N31418, AA136550, T50042, AA143444, AA599498, AA374055, AA143443. H19190, R52382, AA761351, AA459583, AA806592, Z43337, R60959, AA890595, H68058, H91241, AA442117, AA808896, T52417, W95685, AA151139, T33151, AA610445. AA628542, AA422032, AA348728, R63854, AA574979, AA139814, AA684206, AA104614, AA210358, W98842, AA041751, AA068223, AA052848, W58896, AA145278, AA217077, AA792797, AA269756, AA183101, AA023084, AA423737, AA822385, W91432, AA145277, AA681513, AA793915, AA245973, AA790363, AA571781, AA412872, AA254535,

AA792696, AA792697, AA864105, AA549397, AA607276, AA823956, AA790829, AA189573, AA510602, AA420413, AA763341, AA727265, AA718492, AA718494, W11974, AA274040, AA832663, W56982, AA691932, AA444814, C80712, H34148, AI010131, AA859880, AI012636, N60102, N96138, AA605553, W43621, AA528839, R95634, AA525605, N82554, C56074, H31400, D35020, AA528851, C23491, T14457, AA800738, U47092.

SEQ ID NO. 107:

10

AF040707, AF040708, AC002481, Z66370, Z83744, Z81141, AD000812, AC004609, AC002985, AC004217, AC004448, AC004128, L81694, L78810, Y09450, U63963, AL023893, AC004021, AF061032, Z68193, U36478, AC000056, X75891, Y13622, Z36000, AC004030, AC003658, Z70227, S44029, AC002558, L76523, AC002126, AC004388, S51944, AP000045,

- AC004216, AC004552, AF053630, AC002477, U66083, U59962, U26032, X91144, Y11740, AE001001, AA399402, AA447620, AA448454, AA069925, AA448020, AA422152, AA233630, AI039091, AA694501, AA594398, AA009713, AA156783, AA599751, AA398362, AA070017, H80269, AA938654, C02912, H80365, AA947274, AI003286, AA350419, H09156, W23160, AA298504, R40317, AA827591, AA809864, AA297589, AA809865, AA991627,
- 20 AA297851, R44669, AA460451, AA082600, AA352547, AA338738, AA463393, AA555202, AA325687, R41569, R13235, H09213, AA100151, AA635653, AA302916, R19419, C03526, AA009823, AA156852, R15147, R36750, AA666086, AA340305, AA471272, AA091173, C03440, AA350420, AA421315, AA628294, AA232327, D11859, AA628519, AA699311, AA788699, R02062, H77404, AA082714, N51039, AA278486, AA348125, AA922129,
- AA976211, R11648, W94679, AA046821, AI005082, AA094299, T16281, T71616, W76189, W79649, AA046804, AA426618, AA452166, H09325, AA570351, T97619, H82895, AA485716, AA426080, AA541541, AA657945, AA603229, AA908744, H03358, AA424532, AA770584, AA782577, AA832194, AI037102, AA764527, W64225, AA163573, AA073941, AA619080, AA709972, W98890, W59419, AA116886, AA199485, AA754894, W70378,
- AA797181, AA002597, AA839076, AA387015, AA726154, AA718439, AA980485, AA270671, H35002, H35204, AA686027, AI012778, AA686254, AA684618, AA686253, AI029875, AA799580, AI045682, AI029738, AA840778, AA753356, AA697668, AA979757, AA964367.

35

SEQ ID NO. 109:

M86752, AF039202, Y15068, U27830, X79770, U89984, AP000020, AL008628, U72207, D17760, U19927, U34921, U12707, M62740, J03071, AF016422.

40

SEQ ID NO. 111:

U64317, L43821, AF009366, D29766, U48853, U28151, Z66513, U38481, M69181, U36909, U58513.

SEQ ID NO. 113:

D13866, D14705, L23805, U03100, X59990, D90362, Z37994.

SEO ID NO. 115:

5

AF011793, AJ001309, Y13350, U95727, AC002087, AC002485.

SEQ ID NO. 117:

10

D13627, Z37164, D42052, Z37163, M97562, Z22289.

SEQ ID NO. 119:

15

Y08915, AF000577, L31652, AJ223156.

SEQ ID NO. 121:

20

X91141, X77723, D86066, U70777, D85844, AB001750, Y08613, D38038.

Commence of the second

Vers 25

U27462, AB009517, U10399, AA972362, H16641, AA375684, AA336508, AA393076, AA211450, AA312542, AA412102, H81084, AA807300, AA517135, AA035926, AA794287, AA163888, W75621, AA521882, C94187, AA445895, AA842425, AA111773, AA051908, H35839, AA802415, D48028, AI010004, D36325, D48057, W66028, AA788342

30

SEQ ID NO. 125:

U63333, AF035625, AF055320, AF032984.

35

SEQ ID NO. 127:

D49677, D49676, U51224, D45205, AC004106, D26474, S69507, D17407, Z74476, Z26635,
Z99279, AC000056, M83200, AB009480, X86100, Y13901, X67611, X56007, U62631,
X59496, Z72646, AC005092, Z98887, U19755, U41011, U63630, D10061, L20632, U57971,
X94106, Z94721, U60414, M13101, X61298, X53581, U90211, X73124, U45980, U41411,
AB000407, Z97355, AA601026, AA669459, N80309, AA569819, AA430135, AA723697,
T67521, T67543, AA845804, AA320008, AA377829, AA028151, AA028127, AA814970,
AA814962, T69519, AA331011, N78889, AA507133, AA630855, W27716, AJ003534,
AA600133, AA807323, AA078585, AA326345, AA329479, AA904199, AA824460

AA600133, AA807323, AA078585, AA326345, AA329479, AA904199, AA824460, AA424001, AA452591, AA920561, W30240, W11838, AA221247, AA050756, W20707, AA199064, AA771282, Z74661, AA545349, AA422535, AA763112, AA709977.

SEQ ID NO. 129:

D10630, U41671, X63747, Z98745, AB007886, Z11773, AL021997, X84801, U78722, AL022393, Z55026, AC004232, D88827, U31248, AC004522, U88079, U57796, AB011129, AF017433, AJ003147, U78142, AC003966, AF011573, Z21707, AF031657, U88080, U62392, U88081, X51760, X65230, X12592, M36514, L32162, U69645, L26335, X07290, L35269, X07289, L41669, M67509, D45210, D10628, L75847, L32163, U71601, U46186, X82126, X65232, X82125, Z30174, X16281, AC005261, X78933, M29580, Y00850, M88372, X77744, X52356, AF038179, M15709, M99593, X78924, U71599, U41164, X65231, U09413, L28167, U07861, D50419, X78928, X17617, M36146, U09852, X60152, X78927, M29581, AF027146, M96548, M88370, U95044, AF020591, X78925, M88360, X16282, X06021, U66561, U65897, X12593, X89264, X64413, X52533, U71600, AF025771, AF025770, U95992, U95991, U75454, L77247, X55126, AA613873, AA724783, W89121, AA873391, AA285170, W30901, AA620620, AI052471, N59279, W32455, W88914, W02805, N49069, AA011701, AA495857, AA291157, H64286, W02140, AA151132, AA424817, AA702978, F10244, AA011595, AA284023, AA370051, H64287, N77050, R08028, AA076722, R08076, AA077262, W26330, AA314608, AA226724, AA996155, AA910691, N29000, T46864, W52139, H53499, AA400924, AA453245, AA443452, F08086, AA626790, H41302, W58016, T08471, AA631964, W37662, AA776714, AI014264, AA625515, W21271, AA481221, AA115318, W44916, F06540, AA683109, AA334780, R57599, H54888, H54887, N83314, H40464, AA635153, M78146, R20489, AA402531, AA457311, R54170, F06238, H17015, AA701913, H05892, AA682749, AA974380, T77293, F06725, F06163, AA005274, H15716, AA324611, N49093, AA164237, AA535743, AA714166, W26721, AA018889, AA005168, Z21091, AA485008, AA088626, R98365, AA984447, H78732, H78719, AA130717, AA903551, AA930937, AA244891, AA161830, AI036871, AA144413, AA475739, AA756477, AA457998, AA739462, AA272875, W12178, AA140301, W62054, AA562594, AA118740, AA985880, AA017814, AA797641, W14162, AA261676, AA017765, AI036166, AA111087, W62216, W77264, AA021856, AA017906, AA155283, AA023905, W71471, AA021791, AA021779, AA023884, W14525, AA030180, W36989, AA021734, AA510240, W47789, AA240161, AA871668, AA260250, AA064077, AA036225, W75531, AA798457, AI005795, AA499468, AA799050, AA244987, AA044497, AA014148, W66907, W59409, AA615956, AA110661, AA138214, AA738624, AA184558, AA184177, AA137979, W10514, AA546639, AA536874, AA415708, AA415783, AA799270, AA726681, AA611109, AA403675, AA880983, AA611311, AA537547, AA537582, AA476109, AA064411, AI043118, AA435439, AA240059, AA289228, AA197831, AA119538, AA444998, AA153300, AA896035, AA940187, AA427224, AA920304, AA555714, AA266357, AA543703, AA416019, AA790674, AA123106, AA386765, AI047413, AA432576, AA124696, H34137, AI030812, H31100, AA494741, AI012567, AA817763, AA800215, AA800306, AA892061, AA850654, AI011599,

SEQ ID NO. 131:

40

AB002374, X51966, AL021367, AF036702, U88822, AF045642, U55815, AC004518, L13696, AL021889, U75395, AC002554, AC003103, X90386, X04981, U58334.

C82417, AA800027, C83273, AA800810, AI030120, H34068.

SEQ ID NO. 133:

U48587, U68267, AF001906, AF033856, M33336, U73177, J03685, AC004743, AC004539, Z60442, N53159, N75331, AI042621, AA435593, AA608757, AA076290, AA662552, AA213762, AA630025, R57980, N24985, AA813323, H21646, H05642, AA359799, AA191039, AA318867, H15234, AA323419, N27160, AA636826, AA656934, AA726211, AA619507, AA792581, W59642, AA035921, AA637995, AA667370, AA592134, AA637894, AA591158, AA756070, AA467467, AA739462, AA272875, AA214985, AA739083, AA914526, AA386742, AA919409, AI046649, W35790, AA016357, W97992, AA656026, AA414710, AI006426, AA673795, AA239695, AA285593, AA615757, AA038932, AA073580, AA103792, AA220731, C85146, AA867112, AA028705, AA118743, AI005830, AA874206, AA451006, AA667719, AA637623, AA492608, AI048487, AA189854, AA116581, AA096759, R04321, R04399, Z48427, R04620, R04065, R04404, R04422, R03209, C51162, C44210, R05229, C49234, R03208, R04273, D75630, D75447, D75141, D74833, D74636, D74299, D70237, R05254, C42102, AA658642, AA685519, AA799735, C93660, AA685980,

15

SEQ ID NO. 135:

AA750619.

AC005175, L12168, M98474, U94696, M88485, Z95972, Z81557, S54909, U59831, AB002387, U59832, AC004221, AC003993, AA505656, AI004052, AA975150, AA904315, R39951, AA908198, AA348001, AA348002, R39437, R39435, D21034, AA365146, AA813999, F12674, AA226122, T50818, AA143492, AA337395, AA003016, AA475640, W78672, AA517530, W45934, AA915424, W54264, AA168145, W11712, D34652, U92753, Z84127, U92730, AA438286, AA978864, AA941236, F14527, D47303, D15953, AA202003, AA979012, AA440964, AA736036, AA246888, AA940864.

to a mini Garage and a mini

内勒 李林俊的 经证的证据

5.11.11.15.66.4000克。云 Salas

SEQ ID NO. 137:

AF064604, L63543, AE000647, AF064804, AA443401, AA334624, H69413, H69440, H69851, AA167818, AA830102, N64831, AA947764, AA453748, AA453830, R52194, T30970, AA903211, T32140, T30969, W05727, AA024651, C18655, AA386236, T69012, AA442992, AA452775, AA292522, AA223531, AA221067, AA004165, AA538370, AA067626, AA104327, AA874150, AA450950, AA692789, AA798137, AA119093, AA240418, AA542585, AA520648, AA519835, AI045289, AA520246, AA849945, T75681, AA520090, AA651385, Z25578, AA585901, AA395446, C90090, AA713116, AA851675.

SEQ ID NO. 139:

M24603, X02596, Y00661, M15025, X06418, U07000, X52829, M19730, M30829, X52831, M30832, X14676, X52828, X52830, S72479, L02935, M64437, M17542, L19704, U01147, X07537, X14677, X14675, M17541, M17543, M19695, X76485, AF023460, X89600, U19759, AF039083, X71790, AC004679, AC002076, AF035456, M99565, Z72005, Z79997, AL021154, Z98259, AC003108, L13706, AF018254, M69197, U67228, Z75887, U14661, M84472, AC005200, AC001228, AC004761, Z95124, AC002540, Z79699, AE000926, U43572, U51281, D82351, AB013379, U34879, AC002425, AC004598, AA338585, AA333142, AA126116, H55543, H55721, R54267, H55614, H55699, H55545, AA744741, AA772917, H29052, AA573543, T16608, AA773472, AA775416, AA601919, AA470534, AA351521,

AI015318, AA351163, AA486365, AA470985, AA565376, AA344993, R92629, AA553555, AA740903,

AA090392, H94289, AA457592, AI033503, T69709, R94066, AA040853, AA065296, AA349058, AA703759, T05287, H86075, AA043080, AA669995, AA737864, AA726753,

AA727154, AA546638, AA222375, AA671227, AA032828, W14856, W33789, AA874531, AA982359, AA965843, AA965737, AA800560, AI035042, AA941796, AA390686, AA735566, AA802030, C74658, AA246925, AA803435, C27952, AA944566, AA817514, C83561, AA978443, C24959, C82705, C72516, H34014, AA712916, AA820781, D21893, D15866.

10

SEQ ID NO. 141:

S45630, AF007162, X95383, AF029793, M55534, X60351, S77138, S77142, S74229, X60352, M63170, M24906, M28638, J03849, M12016, M73741, U04320, M12014, M24092, L08078, S53164, U26661, M12015, M25770, U16124, X87114, D29960, X14789, X85205, M17247, U05569, U66584, M26142, U47921, U47922, V01219, X95382, AP000007, AE000869, AB009529, AF062537, D10457, S37449, X59541, AA742442, AA704135, AA211774, N35834, AA482745, AA211607, N28898.

20

SEQ ID NO. 143:

U78082, L78810, U14573, AC004068, U07561, M98511, AC004673, AA613346, AA953216, AA305926, H92800, R98218, AA629543, AA297666, AA302982, AA429481, AA126005,

- AA837225, AA856961, AA946848, F13749, AA847704, AA833896, AA621381, AA833875, AA459962, H22141, N73060, AA491955, H28477, AA224463, AA708753, AA152253, D62414444, AA570740, AA984258, AA904211, H94979, AA085410, AA599352, AA488620, AA574442, AA6049845, AA593471, AA393830, AA610509, AA297145, AA113272, AA835889, AA655005, AA655005, AA6655005, AA6655005
- AA689351, R93919, AA613761, AA550989, AA303054, H07953, AA713815, AA827490, AA865262, AA461308, H73550, AA657835, AA362349, H82679, AA378682, AA577755, AA663472, AA490602, AA857673, AA347114, AI049630, AA086150, AI017251, AA877992, AA084609, AI050760, AA808998, AA503258, AA613138, AA603156, AA513293, R97934, AA610233, AA654874, AA501867, AA604831, N22058, AA492114, T50676, AA757426,
- 35 AA584482, AA789192, AI004591, T50694, AA862227, AA594145, AA728911, AA847499, AA159978, AA534204.

SEQ ID NO. 145:

40

Z69030, L42375, U37352, D26445, U38192, U38191, U37770, U38190, U37353, U59418, L76702.

45 SEQ ID NO. 147:

L07872, L34544, L34543, X17459, S63463, M81871, L08904, U60093, U60094, L07873, L07874.

SEQ ID NO. 149:

U07158, X85784, AJ000541, U76832, L20821, AC003089, AC004504, AF049236, L40609, AF053765, L14677, Z94056, Z18277, AE001073, U85969, X79283, AJ223473, AA632339, AA732931, AA610556, AA973899, AA598896, AA531553, AA826535, AI000209, AA290836, AA642711, AA085920, W22275, D20744, UMGS017, AA487868, AA487869, AA085919, 682 AA833281, AA619252, C77541, AA691960, AA763615, AA164051, AA259589, AA060475, AA254185, AA666705, AA272597, AA152985, AI011416, AA850008, H33152, AA941811.

10

SEQ ID NO. 151:

M13451, X03445, X03444, M13452, X66870, X76297, X14170, X99257, D14850, D13181, L12399.

15

SEQ ID NO. 153:

U28918, U17714, X82021, Z98048, D17265, D17092, Z82022, L04270.

20

SEQ ID NO. 155:

X54859, Z86000, AC003043, X77738, X77737, L35930, AC003084, AC000111, M89651, AP000031, U67588, X03991, AC004660, AL010261, V01515, M86251, L29376, Z71417, L78442, U00921, AC004692, AC003698, AE000742, Z49128, Z73417, Z71418, AA424638, AA442084, AA805748, AA835489, AA713576, AA502343, AA765949, AA812332, AA831755, AA417718, AA776946, AA152295, AA731660, R48791, AA150237, N51650, N52616, N52586, AA533556, AA305755, AA760877, AA729913, AA731659, AA910594, N52616, N52586, AA533556, AA305755, AA760877, AA729913, AA731659, AA910594, N52616, N52586, AA533556, AA305755, AA760877, AA729913, AA731659, AA910594, N52616, N52586, AA678135, AI033148, AI041408, AA235113, AA398662, M62215, W27276, AA885767, AA460155, AA742433, R19908, AA040696, AA555240, AA043160, AA292844, R53160, AA536080, N70013, N35921, N70096, AA277029, AA560610, AI046716, AA237153, W15784, AA547132, AA231089, AA170968, D46090, C61892, C64408, D34777, D35175, D35914, D37381, AA559708, D37143, C60784, AI008855,

.

40

U43195, U58512, U61266, D89493, U36909.

AI021808, AI009216, D68214, AA220863, D70434.

SEQ ID NO. 159:

SEQ ID NO. 157:

45

AF069442, AF001295, M13820, M10081, AB010077, AA491075, AA446881, AA588390, AA479958, N20112, R86178, R97894, T64868, W68074, AA365195, AA928749, AI037069, AA882303, AA791693, AA822133, AI037224, AA404165, AI036575, AA499662, AA864136, AA561223, AA183703, AA647218, AA792208, W48100, D40621, AJ225487, AA294595,

SEQ ID NO. 161:

K01546, AE000468, X95549, AC004014, Z81584, L19201, X94244, X06932, U39479, X13301, AC000386, U80847, X86737, U39478, AA883211, AA610050, AA774254, -AA280736, AA926725, AA459300, N55370, AA233666, H90342, T66839, H91250, AA856968, R92873, AI034196, AI014787, AA910410, AA088535, AA230765, AA467238, AA397279, AA420226, AA396042, AA200070, AA165873, AA762534, AA067133, 10 AA065429, AA185092, AA572057, AA111387, AA175824, AA881071, AA571692, AA104279, AA733670, AI008804, D86670, C67200, D41938, AA141467, D35894, AI001643, AA957220, T37355, T18792, D47809, W21723, AA898504, AA951903, AA661025, AA949796, AA990685, AA661449, AA948837, R04787, D16046, AA439636, AA246769, AA978829, D43523, T02021, AA803212, D22651, AA201227, AA694728, AA891643, D23309, AA820831, D41871, W21774, D16065.

SEQ ID NO. 163:

20 X15183, AF028832, D87666, J04633, L33676, X07270, U94395, M27024, M30627, X16857, X07265, M36830, M30626, AA669137, AA725103, AA890496, AA314095, AA554815, AA313331, AA730100, AA214035, AA876412, AA121630, AA314010, AA927532, AA968674, AA679253, N66271, AA558907, AA309988, AA587079, AA075436, AA160964, 25 AA205657, AA214083, AA130903, AA917032, AA149623, AA857523, AA889843, AA8898843, AA88988443, AA88988443, AA88988443, AA88988443, AA88988443, AA88988444, AA88988844, AA8898844, AA8898844, AA88988844, AA889888844, AA88988844, AA88988844, AA8898884, AA8898884, AA8898884, AA8898884, AA88988884, AA88988884, AA8898884, AA8898884, AA88988888884, AA88888888, AA8888888, AA8888888, AA888888, AA888888, AA8 AA305037, AA491055, W73240, AA255644, W73295, AA765431, AA178947, N66409, OSTA AAA AA074895, AA306976, AA075052, AA075387, AA130892, AA857443, AA405942, AA857443, AA405942, AA857443, AA405942, AA629891, AA152004, AA129550, W56527, AA513807, AA703828, AA223171, C75280, AA882 AA889155, AA854676, AA773063, AA774999, AA152392, AA307057, AA316954, AA891580 Deliver 30 AA657352, AA522607, AA188113, AA026444, AI003623, AA312717, AA312400, T64299, AA178992, AA228992, AI042136, AA457613, AI032857, AA164461, AA625127, AA807763, AA130815, AA054695, AA937097, W93534, N67875, AA526896, W52802, AA527942, N34251, W28646, AA668543, AA496091, W52511, AA070581, AA306826, AA120908, AA699607, AA086423, N72134, AA630369, AA564649, AA046806, AA666249, AA306893, AA225404, AA127417, AA854951.

SEQ ID NO. 165:

- M23885, AF047868, AF017732, AB005249, Z83229, AF026483, U97194, Z67884, Z67881, X13481, X07651, AC001226, AC002542, AB002307, AA984684, AA017533, AA306600, AA261957, F08123, R17885, AA282208, H85861, H85836, AA593150, H87276, AA057384, AA243602, AA013399, AA374926, AA721341, R88896, AA021538, AA101740, AA375314, AA090398, H86058, AA984556, AA215816, AA092672, AA034243, AA328017, F11174,
- AA261777, N40306, W21253, R02386, AA349225, AI038487, H98027, AA385878, AA075431, AA375596, R77638, T73214, AA310841, AA062331, AA919318, AA606883, 373 AA174568, AA790426, AA423321, AA647673, AA109549, AA396473, W16215, AA105538, AA061105, AA066766, AA462773, AA555644, AA499452, AA389523, AA245036, AA475340, AA880992, AA198965, W11981, AA509705, AA237414, AA646230, AA673569,

SEQ ID NO. 167:

5

Y11251, AF030234, AF043945, L40407.

SEQ ID NO. 169:

10

U33822, X61838, AA572230, AA589570, AA929790, AA104830, C81582, AA271190, AA290278, AA543616, AI043207, AA107832, AA958460, AI020992, AA795905, AA277468, AA475069, AA111610, AA389139, AA154163.

15

SEQ ID NO. 170:

D32050, D16969, AC004423, S81497.

20

SEQ ID NO. 172:

D86982, L07131, M14544, AA296228, AA318436, AA296234, H88394, W26642, AF038251, AA394101, N35855, N56791, N35444, AA147382, AA647547, AA939939, AA895989, AA122437, AA277698, W75741, AI036117, AA980469, AA033178, AI006694, AA980625, AA033190, AA175922, AA172918, AA895209, AA028700, AA416048, AA175247, AA217057, AI045760, R64866, D40836, D41873, AA509279, D40089, AA114361, AA751642, AA848690, AA800525, AA802510, C24001, AA841755, AA882663, D40069, AA433358, D40199, AA958134, AA072494, AI008727, AA618978, AA848687, C21884, AA113662,

30 AA945653, AA660093, C58446, AA908068, AA532100, AA264560, AA426658, AA097169, AA751535.

SEQ ID NO. 174:

35

Z81364, AC003033, AE000665, AA570483, AA532739, AA526905, AA725306, AA134415, AA651838, AA481316, AA600310, C04532, AA004615, H20713, AA913640.

40 SEQ ID NO: 176

M14695, X02469, X60012, M14694, X01405, K03199, X60015, X60016, X60011, X60018, X60019, X60014, X60013, X60020, AF021816, X16384, L20442, U48957, U48956, X60010, S83123, X90592, U74486, D49825, X81704, X81705, U43902, AJ001022, D26608, D16460,

L37107, AF060514, S77819, X13058, D86070, U50395, U07182, U90328, Y08900, M75144, Y08901, U74487, U48619, K01700, M13872, AF051368, U48616, U48618, X00741, M13874, M13873, X01237, U48617, M22887, X54156, U94788, M13115, U41451, U41452, X01236, K02110, U59757, M22895, M13118, U63714, M22888, M13116, M22894, M13117, U51857, U37120, U62133, U07020, X91793, L07907, U26741, U59758, S78456, L23634, U22145,

X00879, X00881, S77930, S78457, U66066, D63399, U44835, L07908, S57234, D63405, L27630, M22896, U07019, D63404, M13119, X13057, D63402, M75145, D63401, L12046, AA373960, H61357, AA358870, AA928725, H90357, AA302363, R94782, W24142, AA448185, AA004394, AA376121, AA151197, W76037, R82621, AA157426, AA343323, AA301677, AA002978, AA966981, AA839925, AA982800, AA030090, D77246, AA184043, AA142337, AA529242, AA874521, AA048636, AA168688, AA032325, AA881664, AA529082, AA874036, W06121, AA520602, R86591, AA848372, D37535, AA433405, C72790, AI009692, C25990, X91325, D71516.

10

SEQ ID NO: 177

*** 77/07403

X71973, AC004151, L24896, X82679, AF045769, AF045768, U37427, D87896, S80257,___ L12743, X76009, X76008, AF035264, AC004707, AA633971, AA588533, AA992915, AA399565, AA435883, AA454856, AA877822, AA780281, AA767205, AI016009, AI038211, AA417004, AA400522, AA676416, AA526712, AA431710, AA496292, AI041168, AA451858, AA709014, AA588291, AA758304, AA188597, AA149890, AA815107, AA670145, AA026421, AA468719, R67030, AI024175, AA719171, AA708025, W15350, AA431760, AA887242, AA888171, AA769788, AA948489, N54495, AA453278, AA887529, AI014760, AA287946, AA862377, H44827, W72726, N22715, AA662838, AA187825, AA780142, 20 N70623, AA503741, AA024544, AI023537, AA834970, AA062885, AA991970, AA576623, AA722713, AI014758, AA765436, AA633498, AA507435, C01757, N70601, AA314727, R62311, AI004483, R81700, W60860, AA621104, H51422, N33007, AA046316, H20797, R70369, AA724141, AA694532, H20024, AA627821, AA448392, H93528, AI015880, AA453376, AA977808, AA576363, AA838346, N78626, AA648742, AA305364, H20123, 25 AA024543, AA864931, AA946666, AA417190, W73759, AA815325, AA128171, AA809918, AI039304, AA718260, AA088979, AA403403, W85396, AA222552, AA839828, AA071896, AA109679, AA470211, AA219887, AA816136, W83835, AA064566, AA606943, AA034666, AA270485, AA457957, AA571899, AA050132, AA510431, AI020265, AA590096, W97284, AA691964, W78537, W08051, AA435081, AA020097, W15024, AA008493, AA208204, W53741, AA512604, AA049396, W64741, AA756852, AA048836, AA038639, W14765, W10901, AA920385, AA791715, AA647984, AA690893, W75172, AA184727, AA036383, AA275344, AA619559, AA059803, AA575700, AA967063, W83433, AA203908, AA959416, AA222749, W15727, AA684313, AA286343, AA145935, AA137494, AA272180, AA472719, AA208001, AI006169, AA240906, D19204, AA276329, W59005, AA445679, AA510539, AA222929, AA144725, AA413110, AA268012, AA492769, AA545011, AA204126, W17735, AA516923, AA270092, AA518734, AA475396, AA108883, AA014248, AA221781, AA051598, AA667607, AA048854, AA623999, AA397087, AI006246, AA122798, AA675710, AA462388, AA606840, AA516903, AA407638, AA222968, AA064375, C25916, AA941583, C94734, AI011423, AA893085, AA964072, AA957524, AA963336, AA956783, AI014112, 40 AA894190, C20441, AA231739, D68624, AA964536, AT000114, D22968.

SEQ ID NO: 178

45

Z50194, U92983, U44088, AC003101, X72892, AF035444, M32474, AF019953, AC001228, Y15443, AF001294, U12418, X06956, M31176, AF015277, AF002708, R43556, AA088367, AA313553, H92530, AA376262, T09403, AA814143, R75643, AA479005, AA773048, AA507143, AA402127, AA430292, AI015600, AA393069, AA463606, AA885498, AA460759,

AA398766, R48359, AA426107, AA909990, AI017459, AA076224, N39533, AI026941, AA412699, AA292828, AI024759, AI016910, AA573306, R48386, AA065307, AA774549, AI016070, AA884018, AA431512, AA306051, AA476440, AI016070, AA884018, AA065307, AA774549, AI016070, AA884018, AA431512, AA306051, AA476440, AI016070, AA884018, AI016070, AA884018, AA065307, AA774549, AI016070, AA884018, AA431512, AA306051, AA476440, AA884018, AA431512, AA306051, AA476440, AA884018, AA64764018, AA476440, AA884018, AA476440, AA884018, AA476440, AA884018, AA476440, AA476440, AA476440, AA4764018, AA476440, AA4764018, AA47640

AI016070, AA884918, AA431512, AA306051, AA476440, AA292924, AA621059, AA411830, AA405079, AA596171, AA989987, AA472637, AA690249, AA691927, AA792720,

AA637983, AA020137, AA097337, AA117759, W17615, AA285526, AA111347, AA208823, AA879750, AA413058, W33316, AA161891, W41259, AA511152, AA027481, AA020252, AA033106, AA965045, D41048, AI031042, D48020, AA925258, D40853, AA945674, C19585, AA012412, T15040, AA541011, AA000782, AA051207, AA000782, AA0000782, AA000782, AA000782, AA000782, AA0000782,

AI013412, T15040, AA541011, AA990782, AA851306, AA540938, T23386, AA783863, AA979035, AA951002, AA438957, AA979006, AA978995, AA800046, AA556128, C27411,

10 D15562, T20348, AA966363, AA949269, AA785774, AA728671, D16092, N37869, D48782.

SEQ ID NO: 179

マナシ ファバリマルリン

Z50194, U44088, U92983, U12200, AC004147, X82200, Z81527, M63469, Z35494, AC003018, AL021408, M92281, AA576961, AA088194, AA258396, D79238, N27861, AA857168, N35619, N40634, N73008, N21585, AA332511, D56582, D12298, AA641278, Z21892, H92531, AA113084, N76094, N31261, AA227469, AI038845, AA520982, R16910, AA380178, AA238335, AA255056, AA981576, W35008, AA238181, AA739268, AA061742, W50335, AA040688, W64003, AA060750, AI000038, AA850087, AA550687, W50346

W59335, AA049688, W64993, AA900759, AI009938, AA850887, AA525635, W59849, AA660463, AA841121, N96072, AI044112, C24662, C23675, AA924228, AA841227.

SEO ID NO: 180

D87072, U52191, L25270, L29564, L29563, D83144, U73169, AC003036, AC003049, AC004149, Z67744, AC001224, AA215514, AA262849, AA443396, H22815, AA171842, W04162, AA682330, C18753, W01583, AA837306, AA348779, AA492008, AA639340, AA194216, AA371937, AA449692, H09426, AA782728, AA991707, AA085238, AA194029, T03226, AA867674, AA009101, AA726511, W90906, AA028401, W54470, AA266581, AA033314, W10534, AA475518, AA606629, AA616625, AA212796, AA184252, W53289, AA240033, AA238131, W98696, AA038374, AA286525, AA265063, AA212145, AA165741, AA146458, AA021970, AA870293, AA790962, AA770919, AA175098, AA080286, W87105.

AA125485, AA870257, AA793909, AA673390, AA032500, AA059905, W84293, AA511672, W97898, AA881777, AA275041, AA184232, AA178368, W65008, AA734943, AA717871, AA220560, AA184416, AA163885, AA086951, AA032510, AA014341, AA637318, AA239778, AA237322, AA213090, W82825, W70807, AA542256, AA445570, AA444522, AA656978, AA162676, AA051548, AA038373, AA032527, AA840207, AA273185, AA260228, AA051553, W56956, D89319, AI045498, D24681, AA801346, AA962980,

40 C71711, AA824977, D69290, AA264695, D68955, C74586, C72683, AA750613, C83111, AA568036, C82978.

SEQ ID NO: 181

45

U52191, D87072, AL022162, AL008710, Z83850, AF055066, AC004254, L25270, AC003013, U53141, AL021728, AC004997, M38703, AC004020, U91321, AP000041, Z69921, AC002551, D87016, X54171, AF055481, X83213, L05489, AC003018, AB009056, AC000069, L81890, AD000685, AC003031, AC003030, Z99715, AF043301, AE000664, AF007544, X15547,

D86999, AL008633, AB010395, Z37999, AC002295, AC002397, AC003033, AL021878, X97651, AC003957, M33387, AP000053, AL009048, AC003046, M88481, Z74044, L81611, X75284, AA261777, AA864889, AI028372, AA465521, AA846126, AA262767, AA204697, AA215375, H51473, AA506924, AA502898, AA377435, AA113921, D62650, H22351,

- H51430, H22382, AA465101, C18637, W39589, AA327239, R40889, AA873226, AA460243, AA621037, H59359, AA725078, T74486, AA862185, H67186, AA830023, AA443869, AA828666, N38846, AA345908, AA525207, AA609559, AA628297, AA663165, T94643, R05610, R71812, D80739, AA677926, W04238, AA136929, AA137096, AA565152, N46909, N70293, W74325, H63794, N29751, N27675, AI036841, AA840246, AA833063, AA615467,
- AA499981, W87950, AA968257, C81326, AA575315, AA198626, AA177237, W83702, 10 AA032570, AA143960, W76885, C81402, AA624565, C81370, AA790518, AA462820, AA198544, AA619130, AA763304, AA408798, AA596445, AA388381, AA208825, AA465777, AA123453, AA163963, AA272421, AA387128, AA119389, AA004024, AA048596, AA178783, AA408740, AA462137, AA763879, AA104287, AA536743,
- AA189208, AA474607, AA119325, AA930111, AA591279, AA110900, AA511170, Z36370, AA915493, AA799054, C76955, AA475573, AA409880, AA608394, W40814, AA177344, AA139563, AA185921, AA103715, AA087674, W84211, AA413195, AA472014, AA718145, C76233, AA797276, W10301, AA982386, AA607099, AA123778, AA189429, W76777, AA408982, AA274777, C79658, AA543812, AA290119, R75266, AA060786, AA544015,
- 20 AA537758, AA237310, R02919, AA858989, AA695540, AA848230, H74756, AA979969, AA924645, AA964247, AA952521, AA997784, T36746, AI012428, AI045470, AI045012, AA963263, T02640, AA514153, AA685633, H35763, AA246073, AA875723, T38957, AA685944, T36529, AA951284, C93715, AA735681, T36773, AA926109, AA899894, D22301, T36428, T38528, AA550561, AA824716, AA818438, AA951260, AA698348,

1. C. 医皮肤 1. Land 1.

1777, K. 148

練品物ではどいた

SEO ID NO: 182

5、5年1月至海岸的民族人。

U93574, Z84720, U93573, AC004389, AC003080, Z79699, Z83313, M22334, AC002379, 30 Z81145, AC002523, AC004554, AC003015, U93572, AC000057, U09116, AC004769, AC005195, AL009173, Z82195, U93564, U93571, AC004216, U91324, AC004615, AC004513, Z68344, AC002556, Z97181, AC003085, AC003106, Z83827, AL009177, AC004048, L11910, U93563, U93566, AC002541, U93569, U63313, AF011889, AC002385, Z93403, AC002416,

· 斯里曼斯斯 (1915年) 1915年 (1916年)

- AL021069, AF051934, Z81001, Z81008, U93562, U93570, AC002076, AJ229042, AC004081, L19092, L19088, M22333, M80343, AC004673, M80340, AC000111, AC005248, AC004029, AC004103, AC004519, AC002461, U93567, U93565, AF003535, Z98754, U93568, AC003689, AC002106, AC003678, AL020991, Z92844, AC002083, AL008987, AC004142, AC004592, AF064865, AC004014, AL030998, AF036235, AC003090, AC002468, AC004381, AC002426,
- AF064862, Z75741, AP000034, AC002980, AE000659, AC004694, AC003667, AC002381, Z73639, Z70042, AC004677, AD000091, Z68289, AA484141, AA164621, AA604538, AA481622, AA496279, AA984452, AA767964, AA984451, AA736469, AA515158, AA179891, N23655, AA613334, AA804967, AA167491, AA502863, AA736468, AA865990, AA557741, AA577777, AA434354, AA077547, R87956, AA130610, AA458671, AA515147,
- AA249258, AA577804, AA370897, T51061, AA558463, AA564249, AA654792, AA937758, 45 R14500, AA218754, AA808887, AA552844, AA610148, AA360863, AA131481, R14820, AA679387, AA604228, AA219167, AA528769, AA167264, AA211914, N44646, AA583372, AA332799, AA434071, AA768268, R67785, R11143, AA160931, AA492047, AA483907, AA018362, AA565136, AA148747, AA446799, T68944, AA622590, AA148366, AA321287,

AA641586, AA099918, AA323660, AA776660, T07174, AA126741, AA564135, C15230, T04929, AA812939, AA083809, AA825623, AA203220, AA381013, T79543, T06217, AA211212, AA622951, AA548059, AA737238, AA714581, N87426, T57704, R57964, AA776667, AA618000, T79544, AA085646, AA493616, AA334289, AA258289, AA151096, AA827704, AA507666, AA549581, AA168679, AA185032, AA589251, AA981377, AA756236, AA240074, AA656748, AA542310, AA560477, AA675415, AA386570, W64580, AA674272, AA265898, AA260903, AA386558, AA666609, AA445433, AA681947, AA473373, AA098141, AA056918, Z97827, C06649, AA686628, AA817952.

10

SEQ ID NO: 183

AF027390, AC005191, AC004111, AL022394, AC002379, AC004748, AC005214, AC005164, AC004223, AC004536, Z81145, Z75896, AC003119, U91325, AC003051, AC003075, AC005246, AC000112, U73465, Z82204, AP000044, AC004768, AC004740, Z77723, AC004103, AD000091, AC002451, Z95437, AF055066, AC004519, AC000365, AC000120, Z97206, AC005138, AL009172, AC003091, Z68746, AL009173, AC004061, U69729, AC000357, Z97987, AC002429, AP000025, AC002385, AC005165, AC003667, AC002478, AC005166, Z73361, AC002524, AC004613, Z73986, AP000026, Z81311, AL021921, D87003, D87023, Z84720, AC003099, U96409, AC004746, AC003953, AC002402, AL008987, Z99128, U82828, AC003083, AC004388, AC005176, AC002274, AC002523, AC003086, AF007262, AF017257, AC002080, AL022162, Z73496, AC002066, Z68326, AL021408, AL009029, AC004711, AC004503, AC004259, Z72001, Z74696, Z82216, AC002122, Z75741, AC004226, Z92543, Z81008, AC004800, AF003530, AF036235, Z97181, AC003100, AC002486, 25 AC001608, AA902828, AA767353, AA659014, AA932087, AA085707, AA130476, W58442, AA778304, AA055654, AA176355, AI025602, H20876, AA663566, AA911409, AA129986, AA092309, AA846188, AA099788, AA854527, AI027421, AA889273, AA501873, AA811111, AA946637, W49501, AA081993, AA862481, AA130536, T16214, N64574, AA508451, N20521, N94967, C17235, N24958, AA493998, AA807609, AA961590, AA347740; WARES 30 AA709024, AI004961, AA779937, AA132536, N26540, F00936, N90055, AA493735, AA287329, AA718969, N76274, AA629837, AA128858, AA610791, Z36956, AA724159, AA157033, AA771711, AA771730, AA247446, W19865, T57073, W45291, AA166854, AA121916, AA581340, W85828, AA226414, T06365, N77920, AA342331, AA132716, AA953572, AA095194, T55378, AA559950, AA492106, R33901, AA070814, AA082150, AA136576, AI034217, N79992, AA057222, T06932, AA506944, W58428, AA847621, AA091111, AA602447, AA782144, AI028382, H67259, AA460715, W04638, AA174085, AA169142, AA864823, AA136637, AA189081, AA745961, AA139949, AA445227, AA691595, AA500499, AA871750, AA670701, AA511259, AA140374, AA271307, C86865, AA118561, AA881298, AA110813, AA840390, AA212585, AA415184, AA511258, AA666541, AA646864, AA710697, C77932, AA959489, AI046681, C80208, AA645685, C85334, AA265422, AA636275, AA288729, AA275057, AA500995, AA177980, AA458336, AA289940, AA415335, AA919414, AA982224, C76059, AA008758, AA124270, C06869, AA686909, AA686863, D42585, C92939, N61954, AA676153, H33166, AA892085, C06689, M79751, AA413311, AA817771, AI007834.

45

SEQ ID NO: 184

X04350, X69799, M64864, M64865, L38286, X15451, D11064, L15703, AF040967, M24310, L38285, X15449, D11061, M24313, X15452, L38287, L15463, L15464, L15465, L15466, L15461, L15462, D11063, X15448, L38284, X15450, M11307, M15327, D11060, D11062, M29519, X72792, M32657, L38283, M24308, X15447, M37067, M22675, M18476, X76342, U09623, U07821, L47166, L33179, U20257, M22673, M18474, X98746, S78778, M22676, M18477, M32656, M59902, M22611, M22674, M37066, M18475, U16287, M32658, U76729, D11059, M84407, M68895, M37068, M29520, M29517, AJ002389, U16288, U48373, U48375, U48374, U48366, U48367, U48369, U48370, U48368, U48371, U48376, L15704, X90710, X54612, AJ002388, AF037560, AF037561, M15943, H47306, R97630, AA359078, T39956, T40080, W92014, R94266, T29660, T88752, H63211, AA007648, N58628, AA007475, AA663081, R59157, AA635750, N31819, AA418597, R26836, R63871, W16454, AA082493, H43616, AA333940, AA136854, AA224328, R32171, W70169, AA906156, R63943, T29861, AA970185, N99157, AA633611, R74522, AA418659, AA158647, T32414, AA947591, H41930, W71743, AA497928, AA882105, AI048277, AI043149, AA222882, AI047365, AA462832, AA475744, AI048891, AA445677, AI048278, AA238275, AA880474, AA920194, AA002848, AA087915, AI048182, AA572490, AA919920, AA674346, AA674324, AI048841, AA570972, AI048171, AA221141, AI047473, AA726292, AA089234, AA572562, AA575421, AA882120, AA920473, AA537724, AA537981, AA895827, AA521772, AA068475, AA163751, AA065690, AA089214, AA469859, AA895136, AA881990, AA763618, D85324, Z47709, W43337, Z17958, D40569, AI043714, AA849180, AA686762, D42196, C27176, 20 C28623, C21867, D15347, C26420, C26057, C27762, T38704, N82383, AA696634.

SEQ ID NO: 185

25

AF012072, Z34918, D12686, AF012088, L22090, AJ001046, AC002343, L05146, Y10804, AC003951, U66160, U64827, D90909, M21538, X84923, Z47812, AA191463, AA113265, AA632286, AA744722, AA743070, AA213861, AA609958, AA303191, W74161, W31772, AA488254, AA740463, AA455452, AA609344, H46968, AA618058, AA936118, AA806686, AA857299, AA447352, AA262384, F18818, W31201, AA161498, AA437201, AA078878, AA226209, AA722666, AA488220, AA226545, AA908395, AA512922, AA715375, H40724, AA607383, AA455451, AA171367, C77834, C80644, C80833, C78609, AA166246, AA607383, AA445222, AA899256, W36120, M79676, D36745, D28092, C60443, C65586, C62715, D71476, R05114, AA963758, C19374.

SEQ ID NO: 186

AF012072, U93694, U04282, Z83838, AJ229042, AF051934, Z74351, X84162, AC004238, Z49209, Z74352, AF005675, AF005694, AF039057, AF005673, Z74072, U04280, AF005670, AF005697, Z48432, AF005682, AF005681, Z48717, Z74071, AF007943, AF014948, X56564, AF005679, AF005674, AF005683, AF005669, AC004414, AF005680, AE001040, Z68748, U53337, AF005672, AF005678, AF005684, U88166, Z75714, U62943, U41624, U29157, AC004016, U88173, AC002541, AF067619, Z99281, L12722, Z72831, AF029791, AB008681, AF005685, L04132, L05514, AC002465, AF005671, R50684, AA937078, AA457547, AI017135, H89366, AA903329, N34551, AA425182, N34541, H99291, D59286, D62357, D62145, AA665666, AI014367, N92469, W79550, N25822, AA457747, N66282, N29478, AA490854, AA526320, N75058, C21162, H89553, AA468635, AA609043, N44557, W05794, C15377, AI000693, H93075, AA705169, H06933, W88709, AI017605, R42683, T68350,

N95594, AA776703, AA147928, AA528395, AA083916, W25684, AA013334, AA172736, AA209088, AA163459, AA289612, AA982479, AA137939, C86651, AA254210, AA445488, R75462, AI019204, AA509441, AA002277, AA655398, AA571528, AA139333, AI021204, AA537146, AA451453, AA537280, AA271829, AA612432, AA276965, AA433546,

5 AA516947, D18988, AA762234, AA673901, W35735, AA623342, W41360, AA821737, C76479, AA759947, AA958949, AA960071, AA003958, AA063879, AA166186, AA397202, C76476, AA177406, AA615429, AA968368, AA197396, AA254248, AA216884, AA608321, AA646552, AA832682, AA959933, AA960279, AA690108, AA270884, AA794425, AA178520, C76467, AA032352, C76067, AA960423, AA959668, AA267923, C85907,

AA589522, W53243, W16283, C79956, AA893170, AI009093, U30849, AI029468, AA964477, AA998982, AA819125, AI009853, AI008017, AA193834, AA944429, AA658642, AA874889, C10511, C83963, AA997836, AI044502, AA542796, AA727986, AA728058, AA728034, AA257402, AA848180, AA728053, AA273092, AA842891, R82900, AA941899, AA550212, AA570819, AA848179, N43466, T18112, W51512, AA495115, F13984, AA728040, C94558, AA848184, AA280453.

SEQ ID NO: 187

**** 77/UT4UJ

- M64098, X65292, AD000685, AC004674, AC002390, AE000865, AC002401, W19633, W37981, W31034, AA359356, W44329, W73049, AA381485, AA214033, AA641745, W01130, AA479864, AA482668, AA401033, AA828905, N42463, AA441839, W23803, AA316561, M61993, W25087, AI024044, AA300166, W49676, AI025179, W68791, F00883, AA146949, W01317, H45860, AA434028, AA600742, AA128972, R10793, N44804, N80615,
- AA887217, AA046842, W67840, W61058, R88120, H45012, H24653, H44345, W58142, H28895, W80837, AA721685, AI042406, T78959, D53374, AA767635, AA057608, AA946654, T54011, AA335450, AA960756, N30752, AA083591, AA381662, AA341843, AA102142, AA454749, AA382049, AA369065, AA047013, AA843494, AA641801, AA400954, AA946847, AA594410, AA884045, AI003618, H44546, H43740, W37982,
- N57289, AA878271, AA875915, R72666, AA291061, AA991318, AA025686, W49677, AA477495, AA846174, AA279218, AA577098, H39554, N53985, H42595, T61029, N67624, N24525, AA989491, AA743117, AA541753, AA114948, AA290671, AA593962, AA781318, AA510140, W34551, AA832661, AA068830, AA072174, AA915680, AA797967, W87974, AA199235, AA097251, AA397017, AA543154, AA403638, AA450715, W70682, W99218,
- W96859, AA870726, AA797012, AA789632, AA647678, W44312, W70581, AA240843, AA289855, W70954, AA067654, W45866, AA500569, AA798641, AA475794, AA915281, AA896524, AA388231, AI048915, W98758, AA879972, AA098075, AA636830, AA063925, AA537589, AA067923, R74742, AA794586, AA199522, AA140460, AA575302, AA575283, AA241190, AA008420, AA050156, AA537346, AA438310.

SEQ ID NO: 188

M64098, AA603107, AA583290, AA614017, AA098837, AA148086, AA057676, AA551220, AA593938, AA128973, AA160012, AA526472, AI042406, AA995160, AA477495, AA704131, AA722544, AA505439, AA047013, AA180932, W73278, AA457697, AA113374, AA989491, AA403042, AA400954, AA594410, AA600742, AA428988, AA708708, AA564144, AA878271, AA434259, AA828165, AA411459, N68157, W57614, W44389, AA541600, N70299, W49677, AA083472, W37982, N93230, AA708699, AA946847, AA515284,

AA531317, T57842, AA441785, H70034, AA290671, H44547, W68699, AA279218, AA133142, AA649913, AA507239, AA115525, AA182561, C05839, AA160688, T03344, N67663, AA541753, AA149283, AA292051, AA434337, H58081, W57871, AA846174, H39203, N39259, AA887217, AA902746, AA960920, AA843494, AA402167, AA503604,

- H44346, N89879, N30752, N35500, H44960, H28205, T03299, W73049, R88214, AA641801, H51204, AA349512, AA401333, H64553, AA991318, N57289, N98489, AA064637, AA781318, T54271, T28082, H28896, AA066370, AA050156, AA388231, AA199522, AA240991, AA537589, AA914841, AA014371, AA521990, AA832987, AA718368, W97559, AA475794, AA288089, W98758, AA760582, C77790, W45866, AA863850, AA575283,
- 10 AA839114, AA798641, AA879972, AA240843, AA681112, AA896524, AA289855, AA063925, AA098075, AI048915, AA709514, AA575302, AA611492, AA960365, AA020582, AA915281, AA794586, W44312, AA204006, AA575280, C85088, AA087994, AA450715, AA407960, W08948, W96859, AA543154, AA537591, AA762074, AA801657, AA955391, H31891, C73265, H34134, C71182, D40593, C23460.

SEQ ID NO: 189

** ビーノン/ ジャルリン

U75653, U72937, U72936, U72938, AF026032, AF000153, U72900, AF000157, U72904, AF000154, U72901, AF000158, U72905, L33813, AF000155, U72903, AF000156, U72902, AF000159, U72907, U35238, D83975, D89151, D83976, AF027172, X82835, U90548, L23313, AF009513, Z49444, Z75550, L28827, AB009467, X55315, X95465, J05091, Z74874, L23312, U24233, Z49442, M33324, AE000584, U18650, Z83102, H51969, AA348912, H28513, H16150, H89861, R87885, AA758775, AA478585, AA731296, AA479322, AA703054,

- AA505847, AA401962, T26539, AA904382, AI028568, AA402025, AA683588, W44382, AA234051, AA825832, AA526914, AA548515, AA570719, AA502746, T99124, AA129431, AA795462, AA119710, AA475930, AA636654, AA983117, AA914011, AA690476, AA444530, AA930251, AA646231, AA550314, D37000, AA698955, AA957328, C46988, C69695, C69062, AA820935, AA924036, C94029, AA955102, AA263284, AI030621, T18236, AA924036, C94029, AA940404, AA9404, AA940404, AA940404, AA940404, AA
- D15320, X91693, AA752192, D15340, N21752, C93829, AA820757, C10997, R90106, C73999, C29036, Z34220, D67590, AA924715, AA392459, C64193, AA394704, C44965, C46353, D22841, W43492, AA925224.

35 SEQ ID NO: 190

U72936, U72937, U72938, U09820, U75653, L34363, U72909, AF000160, AF026032, D64059, L33812, U97081, U72911, U97080, U72910, X99643, AF059614, X56668, Z81534, L32954, AF019715, Z80215, AC004613, AC003049, Z85983, Y00789, AC004366, J05161, D37935, L25750, AP000052, Z46650, U28722, Z77546, Z77546

- L25759, AP000053, Z46659, U28732, Z73546, Z74961, Z79600, U01844, U05314, AL021528, Z36019, X56772, AC002451, Z70678, Z97339, Z11115, J03585, AB002307, D14135, Z12139, X63578, AF003528, AC004470, AC002406, L05146, AF013614, AF016669, Z37093, M38468, Z50028, D14667, U15220, X51604, U69730, AC003058, X51678, Z78061, AA026415, AA026492, AA565477, AA334257, AA334400, W03358, Z43437, AA230308, W03379,
- W03380, AA553586, W27701, AA035437, AA423988, AA642957, N47911, W07601, AA297731, AA424028, AA431985, AA452037, AA742931, R07135, AA378282, AA807999, H04669, H51991, AA296920, AA167097, AA166771, AA781460, AA702780, AA877937, AA409657, AA462438, AA466795, AA432643, AA553106, AA839627, AA413977, AA611818, W45775, AA866914, AA517484, AA437824, AA119733, C89551, W61745,

AA000578, AA542176, AA638788, AA204302, AA123494, AA239671, AA064096, AA138098, AA666764, W80002, AA032783, AA839384, AA572665, AA615560, AA929543, W53754, AA253722, AA275070, AA097018, AA097462, W20635, W76935, W11176, AA002851, AA039046, AA616970, W57270, AA032390, W14330, AA982254, AA620100. AA059798, AA220035, AA118612, W89810, AA755079, W48197, D28660, AA003116, AI048374, AA472437, AA839079, AA690479, W83517, AA469719, AA570969, W43426, AA728607, AA009334, C52642, AA940791, C51634, C54184, C43015, AA940686, C52004, AA949936, AA720413, C43206, C51719, AA440870, AA940687, AA542455, D33653. D27538, AA949937, D32984, AA098714, D42544, AA012052, AA850442, T36863, H37415, AA801243, N61107, AA945672, AA901373, AA752359, D42940, AA964785, AA925307, AA494739, T76076, AA801210, AA257210, H34173, AA012373, AA898389, W78683, AA253537, AA404810, Z36916, AA520493, Z30478, C22922, AA497210, C83830, AI034933, W00775, AA550279, T44623, AA567291, AA735572, H36274, AA051931, AA441268, AA949536, AA990963, AA545882, R04230, C43248, C68663, AA601762, AA689188, AA990980, AA902048, AA848939, AA944558, C69572.

SEQ ID NO: 191

- D42053, L28801, L06133, U27363, X82338, U29946, L06476, Z94801, X69208, M97936, 20 M97935, U06924, D58723, AA447393, T79137, W22306, W27193, W26625, R91353, R14073, R35174, AA214490, T81841, W22572, AA323811, F13144, R02679, W26522, AA146711. N84513, AA828793, AA069801, T79229, W93450, AA884617, R98261, AA353908, W74516, W73267, AA151515, R76379, T85989, AA465258, AA150254, AA657429, AA565231.
- AA629291, AA758108, H95214, R68856, AA490187, H58974, AA152270, AA857750, 25 AA479264, T87538, H40835, AA853726, W86466, N41906, N32565, H67429, AA046628, AA502921, W95916, AI033829, AA166775, AA310739, H94342, R98026, W95563, AI048328, AA433571, AA423080, AA644864, AA718458, AA543710, AI021250, W74901, W48016, Data Control of the W98370, W63833, AA009063, W71474, AA016581, AA107664, @22660, AA900295, C22396, AA943614, C13744, AI014096, R90357, AA852004. 30

SEQ ID NO: 192

- D42053, M64788, AF043700, AF016419, AC004499, L76554, AF003140, AF067220, R02266, AA654515, AA742462, AA447394, N72883, AA628966, AA236994, AA834615, AA446111. AA877651, AA576481, AA411511, AA889296, AA743851, AA973832, AA627820, N74271, AA766834, AA707912, T58626, H53387, F10747, R85475, Z39927, T81314, AA327582, F04353, H29869, H02136, AA883947, AA988154, T33950, R02561, H02034, F03110, T33768,
- R40198, N29923, AA099039, AA662568, R50833, AA402357, H88660, H88705, T78650, T58675, T33387, R40190, AA746798, N64451, AA860459, AA317017, D20369, H02744. AA099038, N55133, R39213, H29965, AA421884, H29865, R21463, AA505876, W69228, AA775741, R50030, AA639782, AA282899, H25797, AA026257, H50744, AA844425, AA587939, R46426, AA529438, AA590919, AA222198, AA268595, AA840494, AA914804,
- AA789963, W53978, AA244772, AA286589, AA052101, AA031209, AA518865, W53817, W66617, AA963771, AA859063, AA858714, AA735566, AA246925, AA390686, D24127, AA941796, AA901200, AA955950, AA955823, F14905, C95042, AA899670, AA963429, AA893891, AA542593, AA819039, AA944748.

SEQ ID NO: 193

D82364, Z96104, AF044337, AC002350, AB009841, AB009840, AC002452, M16599, AC004532, X97051, X90568, AA159846, AA594263, N70387, R57953, AA230226, AA253265, R92717, D51239, AI033484, AA680398, R36604, AI027861, AA760658, AA995326, R25067, AA678211, AA931384, N21385, AA814528, AA165374, W03607, AA045228, AA180120, AA112755, AA100270, AA060863, AA673217, AA895087, AA940465, C80212, AA499699, W41638, AA067181, AA290141, AA920323, AA869442, AA060257, AA646775, AA017984, AA013934, AA277945, AA592138, AA682015, W20995, AA168403, W65638, AA939908, W08710, AA475829, W97829, AA754913, AA015405, AA386663, AA998973, AI044670, C27898, AA224665, AA899929, AA393010, AA224685, AA956804.

15 SEQ ID NO: 194

U35048, AJ222700, L25785, D82364, X62940, D49740, Z81128, AA464830, AA599821, AA553999, AA917943, AA976635, AA573908, N27936, AA664389, AI002974, N33791, AA873219, AA587785, AA535813, AA503808, AA889489, AA631692, AA855095,

- AA149819, AA533046, AA446460, N66371, AA160747, AA991470, N64128, AA838132, AA845460, AA906853, N45237, N46442, AA126267, AA084241, AA152048, H02610, AA160987, AA609858, AA554901, T03821, AA515986, N32501, AA928291, AA084520, AA669051, AA508083, AA450300, N92537, AA192881, AA888613, AA598465, AA507795, AA634078, AA412366, AA995956, AA019868, AA834976, AA533116, T35173, T03717,
- 25 AA962273, T35302, N30679, AA953347, AA532667, R46464, AA316492, AA029139, F10754, N95003, AA935097, T33411, AA206918, N62084, AA808750, N57507, T33578, D25688, T91206, AA630181, H11073, AA574446, AA598493, T07972, N89996, H37764, AA026140, AA593046, R99117, AA599758, AA782803, AA564628, T23754, AA191470, AA532503, AA039756, T15466, R02169, AA598857, AA744887, AI050085, H44041, T15964,
 - AA869151, AA207967, AA840235, W12743, AA221316, W18390, AA388237, W15040, C87096, AA139599, AA683908, W40979, AA023495, AA268967, C87700, AA137505, AA242471, AA389283, AA537629, D19293, AA589566, AA388914, AA270762, AA110435, AI036412, W54801, AA967148, C87390, AA674817, C86699, AA674079, AA108476, C87766, AA796807, AA546926, AA882325, W10711, AA671021, AA266036, AA606569,
 - AA108497, W34822, W59345, W47841, C86982, AA960436, AI048667, AA822378, AA397283, AA426786, AA034902, AA624924, AA919292, AA038277, AA472859, AA815583, AI047972, AA675464, AI048029, AA571115, C77324, AA103712, AA799781, AA849213, AA800595, C23543, AA141869, H35460, AA253555.

SEQ ID NO: 195

40

X98260, AC004668, D63784, U53208, AC004217, U00158, AL021918, M63718, AC003685, AB012130, L76665, U73395, L41267, X89893, U30272, L76663, L76666, U24075, U50546, L41347, U30274, L76672, L76667, AF022046, X94373, U31416, L41269, AF022047, AF022045, X97233, U73396, AF001887, AJ002103, U24078, AF022049, X89892, L76671, AF002255, X93595, L76661, L41268, AJ002104, U33328, AF022048, AJ002102, L76662, U32515, U24077, AC004633, L07648, L41270, X94262, L76670, L76668, X94374, M62698, X98858, U30273, U24079, U24076, AF001883, X97232, X94609, X93596, X97230, L76669,

U97179, L76664, U24074, AJ002105, X97231, AF022044, AL021368, U16824, AF067214, AC001462, L29389, Z97180, D44480, S80994, M64423, M64278, U29086, Z48483, AC002478, Z83223, U18385, Z81550, Z71255, M25481, U12980, AA337826, AA188700, N89413, AA954584, AA429406, D20011, T11010, AA708608, W25067, W38808, R86666, C04536, T81614, R53773, AA137008, AA506680, AA683371, H69924, AA991350, R18239, T91842, H10763, H69900, AA655986, AA823236, AA623340, C81307, AA294124, C55948, C53035, C55126, C55546, C74428, AA406687, L33498, C07212, AA924466, AA563571, AA800701, AI012885, AA799448, AA542571, C71570, AA042402, C71640, AA924013, AA555371, AI008699, T02190, D72664, AA944558, D65812, D66368, T01369, AA979509, D71236, T44205, T01827, D40672, C58618, W06125, C07201, AA606065, C46115, D40203, T01370, R04640, D71248, C72556, D71547, T01558, C91738, D72553, C07785, AI044627, C13152, C13100, D64746, D66766, D71651, D71383, C11108, D68214, D70434, R64982, C11146, C07159, T04838, C59680, C36053, C58548, C58131, R29854, C37817, M79626, C34637, C31764, AA098688, H31962, C08288, C08079, D72544, D72761.

15

SEQ ID NO: 196

X98260, D63784, U53208, AC004668, AC004217, U88173, S82426, Z71181, M96360, X16259, U94848, AL008631, L22858, D11079, AL009197, M35027, AB001289, X69908, AA189125, AA911232, AA553955, AA639055, AA524380, D20011, AA543065, AA131089, AA631261, AA974199, N29844, D79259, AA833629, H16096, N57262, AA099831, AA134575, N49980, AA101187, AA602492, AA781579, N75345, AA131117, AI025027, AA481652, T55888, AA286766, AA376397, Z33555, AA375199, AA222952, C76144, AA465751, AA267740, AA823236, AA623340, AA458394, AA186093, AA592692, C88240, AA645411, AA692798, AA673943, AI005822, AA839497, AI019274, AA217098, AA964764, C94149, C93858, AA520468, AA650884, T75921, Z33959, AA739671, AA991012, AA585033, AA246163, AA255395, AA111786, AA933444, AA933412, AA842447, AA471727, AA114405, AA570825, AA570895, AA991128, AA480733, AA842566, AA255405, AA514157, AA246177, AA406723, AA109313, AA509291, AA273162, AA842066, AA991140, AA991141, AA246061, AA283471, AA508994, AA201262, AA246055, H74419, N97480, AA395498, T22427, AA945238, AA945650, AI034509, AA899000, F23033, T42287, Z30913.

35

SEQ ID NO: 197 U47742, AB002381, AJ000729, L42550, M33956, AC002991, X01380, X05424, K01964, AB003499, M32660, AA248767, AA219722, AA504689, R41711, AA296844, AA492416, R51283, AA049428, AA217923, AA607511, AA689975, AA015159, AA163336, AA791924, W84145, W85185, AA097378, W18536, N28107, AA592602, AA543587, AA030663, AA881846, C81003, C80991, W08678, W66831, AA184127, W29542, AI013408, AA201942, C23941, T38919, AA042496, AA699041, AA699045, AA924655.

45 SEQ ID NO: 198

U47742, D45215, AC002531, Z81365, AC000363, AC002049, AC000354, Z99572, AA878434, N63358, F16898, H81239, AA777772, AA777633, W28526, AA612635, AA001784, AA599173, AA572806, N26278, W27839, AA187625, AA492285, W27783, R79573,

AA837952, W92573, AA736420, R63244, AA187468, AA525322, AA300947, AI015836, AA372599, W92572, R43233, T65924, AA769105, AA001783, AA583238, T64498, AI018263, AA642877, T80364, AA510934, AA510935, AA646611, AA204217, AA052802, W12771, W12992, AA870112, AI050661, AA637655, AA139991, AA237829, AA736031, AA818174, W66470, AA753486, AA618746, C54011, C59484, AA042149, Z47591, Z97742, AI008239, AA550555, AI029811, AA438705, AA113467.

SEQ ID NO: 199

10

L04733, M75147, M75148, M75146, U48359, Y14586, X69658, AF055298, L11013, D88672, U41356, U82207, U37100, X75972, X84047, M34270, AC003973, U40232, Y13714, AJ001448, X14820, D56386, AA326459, AA323263, M85516, AA410206, N99532. AA074408, F06922, AA853868, AA442752, W04244, AA429741, AA765313, AA635087,

- AA749266, AA036846, AA179452, AA306684, AA972742, AA002132, AA569330, AA848025, AA580719, AA324576, H91884, AA173544, AA230534, AA509865, AA647015, AA015415, AA611446, AA518630, W11435, AA615751, W40723, AA794060, AA839731, AA920796, AA637666, AA007747, AA403503, AA871286, AA980204, AA469753, AA560829, AA209821, AA615604, AA792287, AA270185, AI047789, AA467108, AA795217,
- AA617555, AA855214, AA943900, AA964280, AA997897, AA818427, AA944331, H35289, 20 AA264390, C28173, R47083, D15606, AA753035, C29164, AA040981, T13853, T22855, D23570, H77210, C48820, AA042362, C08588, D75062, C72679, D39380, AA520864, C46247, AA598156, C43207, C28089, C41549, AA699284, N38494, C43868, C26816, AB002714, AA201585, D15360, C50288, C08807, C09524, C09302, C27909, C74054,
- 25 C44856, D75996, D75759, D75259, AA697754, D49290, C48498, C46887, AA695529, AB12 928 C46167, C47812, C43571, AA801733, C42850, C42279, C42041, D35323, C41449, C40103, C27383, T02400, D37512, C08957, C26890, C09377, AI045731, AI044490, AA697888, C10151, C40182, AA597441, C20433, D28193. 1996年發展於1909日前 阿尔马克斯特特特拉斯 经分别的

大人的 在物學經濟學學學學的 医水平性

30

SEQ ID NO: 200

L04733, AF037222, M75147, M75148, M75146, U48359, Y14586, AF055298, L11013. Z29645, Z29644, L24440, L24439, L24441, U40959, Z81007, Z99130, U53147, U83509, L00113, AF003493, AL023094, X66594, AL009204, H20962, H27867, , H21003, AA284075, W46349, , H27868, AA353853, AA228951, , AA933939, , AA345614, AI042244, AA508740, AA936551, AA935112, R61106, R25832, T09254, R56336, AI003952, AA975443, T33488, AA620898, T33533, AA808155, AA888616, , AA449036, AA229380, AA810055, AA558736, AA460144, , AA836527, , AA247108, AA321862, AA683381, R35099, AA284169, R25813,

- W46165, M78613, AA188753, AA325754, H40608, T09255, AA813710, AA618295, 40 AA361462, AA361472, AA830824, AA601211, AA410922, H16117, AA309172, AA270658, AA212157, W45752, AA117565, W88170, AA049655, AA030409, W10467, W81858, AA048063, W98588, AA059822, W29679, W62338, W81854, AA000386, W99868, AA734911, W16197, D77341, AA590149, AA272354, AA691900, AA899876, H33481,
- D70294, AA695675, AA614880, AA675937, AA680593, AA674127, AA934215, AA666451, AA917125, AA934333, AA680602, AA917285, AA825053, AA674133, AA934347, AA736361, AA680580, AA610975, AA934319, AA934250, R95352, AA917100, AA915850, AA720442, AA917301, AA934200, AA618801, AA614881, AA915862, H31037, AA618669, AA934241, AA917248, AA917217, AA720451, AA701722, AA683454, AA683426.

AA682179, AA682171, AA635215, AA625031, AA635214, L46433, AA934198, R95284, R95336, R84208, H31035, C90807, AA934244, AA934227, AA629448, AA917238, AA917223, AA625046, AA915819, AA901480, AA666460, AA675954, AA610984, AA917265, AA618665, AA610976, R95342, AA958298, AA934204, AA915853, AA720440, AA683448, AA666424, R95953, R95952, R95945, R95359, R95317, H48183, AA934312, AA934302, AA934254, AA917293, AA629463, R95351, AA934346, AA915824, AA907981, AA666441, AA666428, AA614875, R95396, R95344, AA934310, AA675934, AA915857, AA720436, AA682173, AA680568.

10

SEO ID NO: 201

L04733, M75147, M75148, M75146, U48359, Y14586, L11013, AF055298, U82207, U37100, AC002366, AC003973, M34270, X84047, Y13714, AJ001448, X14820, U40232, AA326459, D56386, AA323263, AA410206, M85516, N99532, AA074408, F06922, AA853868, AA442752, AA524367, AA972742, AA580719, AA324576, AA173544, AA848025, AA036846, AA179452, AA635087, AA569330, H91884, AA749266, AA230534, AA509865. AA647015, AA015415, AA518630, AA611446, AA615751, W11435, W40723, AA794060, AA839731, AA920796, AA403503, AA980204, AA871286, AA637666, AA792287, AI047789, AA467108, AA469753, AA617555, AA795217, AA560829, AA615604, AA450950, AA538370, AA221067, AA004165, AA655931, AA116611, AA914871, AA067626, AA107804, AA144111, AA943900, AA818427, AA964280, AA997897, AA944331, C28173, AA264390, C74002, R47083, T22855, AA753035, T13853, T02400, C10151, C09302, AA042362, C43571, AA598156, H77210, C46247, AA699284, D75759, C43207, AA520864, 25/25/2041, AA597441, C08957, D28193, D35323, C44856, C09377, AA201585; D3938064. Co. ©26816, C40182, AA697888, D15360, D75996, C48820, D75062, C48498, C47812, C46887, C46167, AA697754, AA695529, AI044490, H33296, C42850, C42279, C08807, C415497. C41449, C40103, C08588; C43868, H35289, D37512, C09524, AA801733, C72679; C50288, THE REAL PROPERTY OF THE PROPE D75259, AB002714, N38494.

30

SEQ ID NO: 202

AF037222, M75148, M75146, U48359, AL009204, Z54173, AC004360, M93339, Z54174, AA933939, AI042244, AA936551, AI003952, AA975443, AA935112, T09254, T33488, AA888616, AA620898, AA808155, T33533, F03186, AA975330, T33906, AA987289, T30145, AA972722, AA907223, R46830, R61829, R46810, R49486, T32146, T33506, AA364499, AA284075, W46349, H20962, H27867, AA228951, AA353853, H27868, AA345614, H21003, AA508740, R55809, N92239, AA017680, C14877, N90902, AA904910, AI049799, C02576, C14616, AA040604, D81988, AA364393, AA897696, AA905071, AA810055, W98588, W10467, W81858, W18083, W29679, W18917, W29911, AA030409, AA048063, W45752, AA059822, AA049655, W88170, AA212157, AA117565, AA270658, W36050, AA051329, AA511037, W13503, AA230588, AA231106, AA624293, AA170741, AA388737, AA560869, AA110993, AA221530, AA869929, AA250568, AA944723, AA955073, AA531681, AA494698.

SEQ ID NO: 203

125 M75165, M12125, X06825, U29167, X58381, M81086, X12650, M87635, K02446, M23081, M64288, M23082, M64287, Z66527, M24635, S78854, L35107, M36337, M36336, X04690, M32441, M24634, X61273, Z66490, M17914, M17913, X04201, U33450, L25609, X66274, M19267, M19713, Z36788, M22479, X64831, X05276, M60667, M60666, M34135, J02780, J00910, M92304, V00893, Z24727, U04541, M12126, L00373, X02412, M23765, X02411, M23764, L00372, M19715, M19714, X52244, X61272, M87307, M34136, M60669, M34134, M60668, X52243, AF013612, L00375, X72859, L24775, L24776, L24777, M15044, X51626, M21224, U33449, S82383, M21223, X53753, X12369, L35239, X51625, X04588, X03541, L00374, Y00169, X51624, M21225, X51627, X57993, X16236, M15472, J00312, X16230, X57991, M16432, V00892, L00376, L35238, L00377, X54279, X54278, Z83313, M21226, AA640943, AA640697, AA467909, AA704139, AA197262, AA666145, AA669820, AA704070, AA594968, AA196231, F00526, AA595323, AA599517, AA373420, AA157609, AA069985, AA622022, F01115, D57262, AA595380, AA375886, AA283746, AA333336, AA341434, AA340705, AA670031, AA858221, AA359599, AA229593, AA194475, AA225258, AA588750, AA375884, AA394062, AA166737, T91493, AA622307, T48008, AA091366, W76573, W72570, AA599467, AA346260, AA373849, T19964, AA631155, AA341932, H46496, AA299082, F00980, F00784, AA374875, AA479560, AA179369, AA531086, AA603988, AA534759, AA558154, AA330919, AA224750, AA059453, AA613265, AA176790, AA147720, AA477400, AA180956, AA283684, AA911281, AA565346, T92451, AA635269, F00822, AA345989, AA167017, AA179035, AA133943, AA639079, F01064, AA327073, AA600092, AA374651, AA192132, W96503, T11706, AA192109, AA180975, W19118, C02894, F00502, AA188390, F00868, AA373237, AA091477, W76369, AA181411, N89162, AA192706, AA091727, AA197324, AA176792, AA791722, AA710866, AA816047, AA239722, AA240116, AA637356, AA636703, W64162, AA250531, AA266075, AA220317, AA221748, AA691397, W65567, AA537264, AA269855, AA26985, · · · · · · 25 AA231405, AA657173, AA463158, AA033007, AA717285, AA611244, AA673836, AA537820, AA212586, AA755615, AA690773, AA269859, AA222788, AA636872, AA230983, W62506, W58806, AA636258, AA066775, W78439, W18330, AA930703, AA030657, AA718228, AA238857, W44028, AA982880, AA168448, AA771434, AA597186, AA530744, AA238992, W88106, AA272336, W62359, AA656935, AA003859, AA530638, AA670772, W77305, AA509508, AA509486, W97271, AA616746, AA688589, W41329, W65816, AA612497, W62331, AA036588, AA288872, AA265919, AA616509, AA980428, AA066697, AA929425, AA463021, AA463053, AA241880, W62147, AA268742, AA656232, AA241879, AI020780, AA259705, AA222986, AA710117, AA060812, AA518492, AA463054, AA030944, W64070, AA541901, AA222372, AA717596, AA691787, AA222520, AA231425, AA144205, AA671454, AA656231, AA647302, AA153145, AA645321, C83482, C82626, AA605935, AA012678, AA012773, AA012719, AA892224, F14809, AA108301, AA012755, C82550, C83406, AA859305, AA566238, AA566648, AA566851, AA566286, AA566644, AA253539, AA821220, AA567134, AA802284, AA736065, AA264157, AA697049, AA695541, AA801636, AA697082, AA567410, AA263523, AA901166, C46287, C39436, T00780, C66376, AA697015, C44371, C70009, AA567812, D69675, AA263301, M79503, AA816806, AA555497, C66286, AA941527, AA979604, AA949211, AA696289, AA948946, AA390860, AA540494, AA949487, AA406880, N41272, AA264230, AA941657, Z81182, AA201467, AA978437, AA438386, N37112, Z81287, U30879, AA898275, AA685520,

AA540848, AA820724, AA924036, AI008485, D85797, C13596, AA892978, AI010059,

AA800950, AA440726.

45

ママ ❤ ノノバリマムリン

M12125, M75165, X58381, U29167, X06825, K02446, M23082, M64287, M87635, X12650. M81086, M12126, Z36788, M23081, M64288, V00893, M24635, Z66527, L00375, V00446. X05276, Z66490, J02780, L25609, AF013612, S78854, X52244, X61272, X61273, X52243, X66274, L24775, M23764, X02411, X02412, M23765, L24776, L24777, L00382, M36337. M36336, X64831, M22479, M34135, M34134, M60667, M60666, M60668, M60669, M34136. J00910, M21225, X51627, X72859, M32441, X04690, M24634, L00380, M17914, M17913, M15044, S82383, Z24727, L00377, L00376, X12369, M19713, M19714, M19267, M19715. L-35238, X53753, U33449, L35107, X54279, Y00169, L-35239, U33450, M87307, M21226, J02526, V00445, M21224, X51626, L00379, U04541, X04201, X04588, M69143, X57994, X03541, X16237, M92304, V00892, M16433, L00374, Z83313, M15043, M12127, X16238, AA669820, AA640943, AA666145, AA704139, AA594968, AA595323, AA599517, AA704070, AA858221, AA670031, AA588750, AA166737, AA599467, AA622307, D57262, AA595380, AA229593, AA531086, AA603988, AA622022, AA558154, AA613265, AA069985, AA147720, AA565346, AA635269, AA167017, AA224750, T92451, AA070759. AA342215, AA070760, AA102115, T48009, AA631155, AA747279, AA600092, AA468261, AA330919, AA747402, AA341434, AA533743, AA479560, AA639079, AA516177, AA534759, AA467909, T29630, AA059340, C01021, AA196231, AA327369, AA657481. T58571, AA194475, AA865934, AA157609, AA730981, T58532, W72570, H46496, AA299082, W76573, F00980, AA373849, AA299207, AA550766, AA229684, AA179369, AA554522, AA554529, AA640697, F00138, F18504, AA059453, F17676, AA333336, AA197262, F16069, AA341932, AA699407, AA635501, AA194549, AA448329, AA176792, AA292342, F20460, T48008, AA514516, AA197324, AA970627, F01064, AA468706, AA453298, AA541765, AA329154, AA834112, F21577, AA345989, F00868, AA238992, AA980428, AA656232, AA222986, AA791722, AA208641, AA710866, AA530638, 25 AA710117, AA066697, AA816047, AA240116, AA239722, AA030944, AA958979, AA259705, AA637356, AA691397, W64162, AA636703, AA250531, AA221748, AA266075, AA220317, AA717285, AA530744, AA269855, W65567, AA537264, AA611244, AA265531, AA657173, AA231405, AA463158, AA033007, AA212586, AA755615, W40734, AA537820, AA673836, AA718228, AA269859, AA636872, AA636258, AA222788, W41052, AA690773, W62506, AA230983, AA797470, W58806, AA066775, AA982880, AA030657, W18330. W78439, AA930703, AA409699, AA563146, W44028, AA238857, AA153489, AI006609, AA691787, AA667845, AA222520, AA003095, AA231425, AA222372, AA611396, AA717596, AA762568, AA871856, AA239616, AA597186, AA656231, AA530278, AA611447, AA717792, AA168448, AA671936, AA718774, W14085, AA670772, AA575261, AA117289, AA003859, AA986011, AA027698, W10374, AA002960, W62253, AA616744, AA794213, AA445463, AA726372, AA855820, W53070, AA152584, AA152616, AA012678, AA012719, AA012773, AA012755, AA012714, AA605935, AA892224, AA858875. AA859305, F14809, C82550, AA800276, AA859231, AA955111, C83406, AA253539, AA901166, Z84024, C68528, C11929, AA850301, AA892279, AA850579, AA850481, D66506, AA850300, AA859196, AI008798, H32166, W96784, D85797, U30879, AA263363, AA495717, AA978673, AA898617, C13596, AA540271, AA696190, C27749, AA949385.

45 SEQ ID NO: 205

M12125, M75165, U29167, X58381, X06825, M23082, K02446, M64287, M87635, X12650, M81086, M12126, Z36788, V00893, V00446, M23081, M64288, Z66527, L00375, M24635, L25609, Z66490, L00382, X05276, X61273, X52244, L00380, X61272, AF013612, L00377,

D71223, N61956, C42515, N82456, AA800319, D72548, W63411, AA698426, D71898.

リレン ノノノロマムロン 127 X66274, S78854, X52243, J02780, L00376, M21225, X51627, M34135, M34134, X02412, M23765, M60667, M60666, M23764, X02411, M60668, M60669, M34136, M24634, X54279, M21226, X64831, L00379, X12369, Z24727, M22479, L24776, L24777, L24775, V00445, J02526, M19713, M19714, M19267, M19715, L35107, U33449, Y00169, M36337, M17914, X04690, J00910, M17913, M36336, M15044, S82383, M16433, Z83313, U33450, M32441, M15043, X72859, L35238, X04201, L35239, X04588, M69143, X57994, X51628, X16237, M92304, AF034954, AF034953, X03541, U04541, X53753, M12127, M87307, U08008, -X16238, AA669820, AA640943, AA666145, AA594968, AA595323, AA599517, AA704139, AA858221, AA670031, AA588750, AA704070, AA166737, AA599467, AA622307, D57262, AA229593, AA595380, AA531086, AA603988, AA558154, AA613265, AA622022, 10 AA147720, AA069985, AA565346, AA635269, AA167017, AA224750, T92451, AA070759, AA342215, AA070760, T48009, AA102115, AA747279, AA631155, AA600092, AA330919, AA468261, AA747402, AA533743, AA479560, AA639079, AA516177, AA341434, AA059340, AA534759, T29630, C01021, AA327369, AA657481, T58571, AA865934, AA730981, AA467909, T58532, AA194475, AA196231, AA299082, H46496, AA299207, AA550766, AA229684, F00980, W72570, AA373849, AA179369, AA554522, W76573, AA554529, AA157609, F00138, F18504, F17676, AA059453, F16069, AA699407, AA176792, AA194549, AA448329, AA635501, AA292342, F20460, AA514516, AA197324, AA970627, F01064, AA453540, AA453298, AA612870, AA468706, AA541765, AA329154, AA834112, F21577, AA524088, AA346234, AA176572, AA345989, F00868, AA238992, AA980428, AA656232, AA222986, AA791722, AA208641, AA710117, AA710866, AA958979, AA530638, AA259705, AA030944, AA066697, AA637356, AA816047, AA240116, AA239722, AA691397, AA265531, AA636703, W64162, AA250531, AA221748, AA266075, AA220317, AA269855, W40734, W65567, AA530744, AA717285, W41052, AA611244, AA797470, AA537264, AA231405, AA463158, AA033007, AA212586, AA657173, AA212586, AA657175, AA212586, AA657175, AA512586, AA5125 AA537820, AA673836, AA755615, AA409699, AA563146, AA269859, AA636258, AA718228, AA691657, AA690773, W12550, AA636872, AA222788, W62506, AA691976, AA230983, AA681560, AA259588, AA667845, AA144203, AA222372, AA231425, AI006609, AA871856, AA762568, AA239616, AA611396, AA153489, AA691787, W18330, AA030657, AA671936, AA445463, W10374, AA002960, AA726372, AA575261, AA656231, AA855820, AA616744, W53070, AA152584, W62253, AA152616, AA117289, AA530278, AA717792, AA794213, AA027698, AA611447, W14085, AA718774, AA409095, AA408132, AA016554, AA240225, AA881986, AA930685, AA574514, AA466570, AA222427, AA012678, AA012719, AA012773, AA012755, AA012714, AA605935, AA858875, AA892224, AA859305, AA800276, AA955111, AA859231, AA253539, AA901166, Z84024, C83406, C82550, AA850301, AA850481, AA850579, AA892279, C68528, D66506, C11929, H32166, AA850300, AI008798, W96784, AA859196, AA263363, AA540271, AA898617, AA978673, AI010235, AA495717, U30879, C13596, D85797, AI044709, D49231, D71635, AA012148, N82456, AA520618, AA800319, D68812, D66459, D66859, AA567198, C71331, AA859869,

SEQ ID NO: 206

40

AA949033, D36698, C27962, C73985, D23014.

AA640943, AA704139, AA669820, AA666145, AA594968, AA704070, AA595323, 45 AA599517, AA858221, AA670031, AA588750, AA166737, AA599467, AA622307, D57262, AA595380, AA229593, AA531086, AA603988, AA622022, AA558154, AA613265, AA467909, AA640697, AA069985, AA147720, AA565346, AA635269, AA167017, AA197262, T92451, AA224750, AA070759, AA196231, F00526, AA342215, AA070760,

AA157609, AA373420, AA102115, T48009, AA631155, AA747279, F01115, AA375886, AA600092, AA468261, AA341434, AA330919, AA747402, AA533743, AA479560, AA283746, AA516177, AA639079, AA333336, AA340705, AA534759, T29630, AA059340, C01021, AA194475, AA327369, AA359599, AA225258, AA657481, AA375884, AA394062, T91493, T58571, T48008, AA091366, AA865934, W76573, W72570, AA730981, AA346260, T58532, AA373849, T19964, H46496, AA341932, AA299082, F00980, F00784, AA374875, AA550766, AA299207, AA179369, AA229684, AA554522, AA554529, F00138, F18504, F17676, AA176792, AA176790, AA197324, F01064, AA345989, AA791722, AA710866, AA816047, AA240116, AA239722, AA238992, AA637356, AA636703, W64162, AA250531, AA221748, AA266075, AA220317, AA691397, W65567, AA269855, AA537264, AA231405, 10 AA657173, AA463158, AA033007, AA717285, AA611244, AA673836, AA980428, AA537820, AA656232, AA212586, AA755615, AA690773, AA269859, AA222788, AA636872, AA230983, W62506, W58806, AA636258, AA222986, AA066775, W78439, W18330, AA930703, AA030657, AA718228, AA238857, W44028, AA982880, AA168448, AA771434, AA597186, AA530744, W88106, AA272336, W62359, AA530638, AA656935, AA003859, AA670772, W77305, AA509508, AA509486, W97271, AA616746, AA688589, W41329, W65816, AA612497, W62331, AA036588, AA288872, AA265919, AA616509, AA066697, AA208641, AA929425, AA463021, AA463053, AA241880, W62147, AA268742, AA241879, AI020780, AA710117, AA259705, AA060812, AA518492, AA463054, AA030944, AA958979, AA541901, AA222372, AA717596, AA691787, AA222520, AA231425, 20 AA144205, AA671454, AA656231, AA647302, AA153145, AA012678, AA012719, C83482, C82626, AA012773, AA012755, AA605935, AA012714, AA892224, F14809, AA858875, AA108301, C82550, C83406, AA859305, AA566238, AA566851, AA566648, AA566286, AA566644, AA955111, AA859231, AA800276, AA253539, AA567410, AA264157, AA802284, AA697082, AA695541, AA801636, AA567134, AA821220, AA736065, 25 AA697049, AA263523, AA901166, Z84024, AA697015, AA567812, M79503, AA263301, C66376, D69675, C39436, C44371, C46287, T00780, C70009, AA816806, AA555497, C68528, AA892279, C11929, D66506, AA850481, AA850579, C66286, AA850301, AA949211, AI008798, AA696289, AA540494, AA859196, AA948946, AA949487, W96784, AA264230, AA406880, AA941657, N41272, Z81182, AA201467, AA438386, AA978437, H32166, 30

SEQ ID NO: 207

35

AA941527, N37112, AA390860, AA979604, AA850300.

M90309, M96256, M90820, D82876, M95123, U62545, AF005383, U28379, Z81009, AC003982, AE000387, U57833, U58751, U97592, U64849, U61224, U10123, U10127, U10131, U10133, U60970, U10125, U61238, U23170, U69639, M29192, AA662136, D56262, AA316768, AA425201, AA180767, D52197, AA083191, AA196815, AA305565, AA211880, AA099456, AA374550, D54751, AA830458, AA083192, AA904934, H16000, AA304018, AA330777, AA301380, AA661783, AA626635, AA507452, AA358517, AA910956, AI039677, AA805078, AA722415, AA133184, AA745880, AA662099, C03243, N88739, AA133371, AA091762, AA514235, AA946647, AA207200, AA934449, AA365011, T23842, AA652387, N63329, AA878427, AA402087, AA937256, AA687770, AA731077, AA515865, W67861, W67804, AA809606, H42504, AA709130, AA757083, AA856607, AA287349, AI015577, W69692, N29511, AA701928, AA815104, AA929000, H80862, W46860, T09413, T28999, T78553, T95232, AI040805, AA040668, Z45180, R52744, R60482, AI014338, T87832, H18710, H52017, AA430392, F11745, R20592, R79671, R88938, AA007693, AA215302, T33317, H43493, N54811, AA189120, T33924, AA219658, AA446826, AA456142,

AA436121, AA631802, AA828597, H05237, AA768012, AA120298, C89465, AA797358, W08380, AI047710, AA914388, AA389343, AA168959, AA118129, AA511602, AA399855, AA182992, AA797490, AA390161, AA403528, C79625, AA170032, AA217176, AA270198, AA003544, AA546962, AA734655, AA968213, AA689698, C80997, AA216978, AA891798, AA799660, AA963593, AI043955, AI013191, AA893342, AA964549, AA818767, C55468, C53849, D71359, C11020, D34505, C66801, AA550626, D73050, T00102, D27494, D33998, D15421, AA875699, AA926207, AA893964, AI045611, AI009719, AI012274, AA946258.

10 SEQ ID NO: 208

M90309, M96256, M90820, D82876, M95123, U62545, AF005383, AE000387, U28379, Z81081, U83435, AC004309, Z79999, AA626635, AA507452, AA662136, AA805078, AI039677, AA745880, AA722415, AA133371, AA514235, AA946647, AA207200, AA830458, AA083192, N63329, AA878427, AA934449, AA133184, AA402087, AA937256, AA365011, AA687770, AA425201, AA731077, AA515865, W67861, AA910956, AA182893, AA358517, W67804, AA301380, AA652387, AA541535, AA523222, D57347, AA180767, AA886161, AA330777, AA876833, AA928813, AA662099, AA512845, D56262, AA809606, AA661783, AA904934, AA091762, H16000, AA305565, AA316768, AA196815, AA211880, D52197, AA836660, AA083191, AA099456, AA815104, W69692, AI023221, AA287349, N29511, AA856607, H80862, AI015577, AA701928, W46860, AA929000, T61548, AA913564, W89194, R26007, AA446792, AI047710, AA118129, AA168959, AA914388, AA797358, AA182992, W08380, AA797490, AA120298, AA403528, AA390161, C89465, C79625, AA389343, AA399855, AA546057, AA881711, AA638279, AA200660, W10929, AA511602, AA208053, AA170032, AA003544, AA823013, C80997, C80840, AA175939, AA795640, AA254102, C86617, AA718459, AA537290, AA891798, AA799660, AI013191, AA893342, AA964549, AA818767, AI043955, AA963593, C92667, C93100, T38634, R62100, F20116, AA559808, AA933417, AA979940, AA752523, C94469, AA395323. 17.17.12 · 18.3000 高点的现在分词

人以更加是

30

SEQ ID NO: 209

M90309, M96256, M90820, D82876, M95123, U62545, AF005383, X67267, Z81081, AC003964, U28379, AC003982, AE000387, AL008715, U10131, U10133, U60970, U69639, L75845, U57833, U79225, U64849, U23170, U61224, U58751, U61238, M29192, U10123, 35 U10125, U10127, AA662136, D56262, AA425201, AA316768, AA180767, D52197, AA083191, AA196815, AA305565, AA211880, AA099456, AA830458, AA083192, AA374550, D54751, AA626635, AA904934, AA507452, H16000, AA304018, AI039677, AA301380, AA330777, AA661783, AA805078, AA745880, AA722415, AA358517, AA133184, AA910956, AA133371, AA514235, AA946647, AA207200, AA934449, AA662099, AA365011, N63329, C03243, N88739, AA878427, AA091762, AA402087, AA937256, AA687770, AA731077, T23842, AA652387, AA515865, W67861, AA182893, AA523222, AA541535, W67804, D57347, AA512845, AA886161, AA928813, AA809606, AA876833, H42504, AA709130, AA757083, H80862, AA815104, W46860, AA856607, AI015577, W69692, AA287349, N29511, AA929000, AA701928, H18710, AA007693, AA430392, F11745, R88938, R20592, R79671, H43493, AA456142, AA828597, AA189120, AA446826, AA631802, AA913564, N54811, AA768012, AA219658, T28999, T95232, R26007, AA215302, H05237, AA457346, AI040805, T78553, AA436121, AA120298, C89465, AA797358, W08380, AI047710, AA914388, AA389343, AA168959, AA118129, AA511602,

AA399855, AA182992, AA797490, AA403528, AA390161, C79625, AA546057, AA881711, W10929, W85287, AA170032, AA003544, AA217176, AA546962, AA968213, AA216978, AA270198, C80997, AA891798, AA799660, AA963593, AI043955, AI013191, AA893342, AA964549, AA818767, C11020, C55468, C53849, D71359, D73050, AA550626, T00102, D27494, D33998, C66801, D34505, AA875699, AI045611, AA893964, AA926207, AI009719, AI012274, AA901041, AA946258, D15421.

SEQ ID NO: 210

10

15

M90309, M96256, M90820, D82876, M95123, U62545, AF005383, AE000387, U28379, Z81081, U83435, Z69302, AC004309, Z79999, AA626635, AA507452, AA805078, AI039677, AA662136, AA745880, AA722415, AA133371, AA514235, AA946647, AA207200, AA830458, AA083192, AA878427, N63329, AA934449, AA133184, AA402087, AA687770, AA937256, AA365011, AA731077, AA425201, AA515865, W67861, AA910956, AA182893, AA358517, W67804, AA301380, AA652387, AA523222, AA541535, D57347, AA180767, AA886161, AA876833, AA928813, AA662099, AA330777, AA512845, D56262, AA809606, AA661783, AA904934, AA211880, AA091762, AA305565, AA316768, AA836660, AA196815, AA083191, D52197, H16000, AA856607, AA701928, H80862, W46860, AA815104, AA929000, AI023221, N29511, W69692, AA287349, AI015577, AA427663, R26007, AA446792, T61548, W89194, AA913564, AI047710, AA118129, AA914388, AA168959, AA797358, AA182992, W08380, AA797490, AA120298, AA403528, AA390161, C89465, C79625, AA389343, AA399855, AA881711, AA546057, AA638279, AA200660, W10929, AA208053, AA170032, AA823013, AA003544, AA891798, AA799660, AI013191, AA893342, AA964549, AA818767, AI043955, AA963593, AA875699, H76320, AA875699, AA8768, AA875699, AA8769, AA

达特特特特的复数 一列

The state of the s

THE PARTY OF THE PARTY OF

SEQ ID NO: 211

医硫镍镍铁铁矿

- 70.72

可是公司运输的保护。 -

TO SERVICE OF THE SER

- M90309, M96256, M90820, D82876, M95123, U62545, AF005383, Z81081, U28379, AC003982, AE000387, U83435, AC004309, U60970, U61238, U69639, U57833, M29192, U10133, U61224, U64849, Z79999, U58751, U10123, U10125, U23170, U10127, U10131, AA662136, AA626635, AA507452, AA805078, AI039677, AA745880, AA722415, D56262, AA425201, AA133371, AA514235, AA946647, AA830458, AA207200, AA083192,
- AA316768, AA180767, AA878427, N63329, AA934449, D52197, AA133184, AA402087, AA083191, AA937256, AA196815, AA365011, AA687770, AA305565, AA731077, AA211880, AA099456, AA910956, AA374550, D54751, AA515865, W67861, AA904934, H16000, AA304018, AA301380, AA330777, AA661783, AA182893, AA358517, W67804, AA652387, AA541535, AA523222, D57347, AA662099, C03243, N88739, AA091762,
- AA886161, AA876833, AA928813, T23842, AA512845, AA809606, AA836660, AA757083, H42504, AA709130, AA815104, AI023221, AA856607, W69692, AI015577, N29511, AA287349, AA929000, AA701928, W46860, H80862, F11745, R20592, H52017, AA215302, AA456142, H43493, AA189120, AA446826, AA913564, H05237, N54811, AA219658, AA768012, R26007, AA631802, T28999, AI040805, T09413, AA828597, T78553, T95232,
- AA040668, AA436121, AA120298, C89465, AA797358, W08380, AI047710, AA914388, AA389343, AA168959, AA118129, AA511602, AA399855, AA182992, AA797490, AA403528, AA390161, C79625, AA881711, AA546057, AA638279, AA200660, W10929, AA208053, AA170032, AA546962, AA968213, C80997, AA823013, AA216978, AA270198, AA217176, AA003544, AA891798, AA799660, AA963593, AI043955, AI013191, AA893342,

AA964549, AA818767, C53849, D73050, T00102, C66801, AA550626, C55468, D34505, D27494, D71359, D33998, C11020, AA893964, AI009719, AA946258, D15421, AA875699, AA926207, AI012274, AI045611.

5

SEQ ID NO: 212

U33818, U75686, D12799, X57483, M27072, Z48501, Y00345, X65553, AF032896, U68096, X75959, AF001290, AC000374, AL008725, AC002468, Z99571, AE001162, X02868, AC002426, U61983, AC002994, AC004654, X97249, M55163, U24491, M62322, AF010151, AC004068, AC004784, U10438, AA158440, AA194420, AA188891, AA486375, R17538, F00298, H18542, T28812, R17340, AA196312, AA196938, F00102, W37521, H25084, Z21267, R17367, T77286, T27011, H08705, AA379415, R96399, W74246, R19420. AA247691, AA312133, AA285253, AA152064, AA361741, AA351480, AA401953. AA188750, AA056307, T62784, AA171870, R87216, AA101951, T69963, AA377926, AA486626, H65031, H22721, AA091008, T62932, AA373063, W40155, H78922, AA385613, H94776, R52413, R56744, H78328, H94769, AA314666, AA303852, AA376845, AA774116, W39453, H23386, AA366534, D56258, AA056400, AA318252, AA379760, AA347167, R91800, C03993, N56760, H25628, H94770, D82637, AA361546, AA354644, AA180522, AA114086, AA313472, F07481, W02399, T26991, AA354673, AA367226, R12837. AA368385, AA149671, W19520, T91469, AA165091, H73529, AA382206, AA736555. T96776, R85578, AA360664, AA146756, AA517715, AA549198, W45901, AA530373, AA068153, AA794203, AA681546, AA543470, AA920538, AA541855, W48104, AA545226, ²⁶ C81574, AI020619, AA545223, AA467691, AA407351, AA080540, AA589633, AA059627, 25 AA239102, AA543952, AA144201, AA413709, AA561318, AA645633, AA041692, AA645633, AA64563, AA64563, AA64563, AA64563, AA64563, AA645633, AA64563, AA645636, AA645656, AA645656, AA645656, AA6566, AA6666, AA6666, AA6666, AA666, AA6666, AA6666, AA6666, AA666, AA666, AA666, AA666, AA666, AA666, AA666, AA666, AA66 AA794553, AA684154, AA855593, AA117203, AA560746, AA655813, AA549355, AA543742, AA672755, AA098209, AA529650, AA217996, AA067786, AA674118, AA065421, AA068210, AA109586, W65980, AA529434, AA473398, AA647192, AA399911, AA572052, AA617584, AA571125, AA688594, W77696, AA537244, AA560874, AA645902, W56921, AA473387, AA124214, AA222575, AA473517, AA108250, AA154026, AA051730, AA562058, AA110011, AA546821, AA145742, AA798579, AA789909, AA645194, AA183483, AA638251, AA867607, AA445059, AA607843, AA553063, C80232, AA921604, AA562884, W70720, W62179, W71834, W65821, AA031045, AA231604, AA562224, AA041626, AA517821, AA717160, AI037666, AA591443, W75448, W62769, AA162363, AA798415, AA681784, AA667343, AI028973, AI030229, H56873, AI007576, W59838, C31022, AA979102, AA698277, AA566362, AA698275, R90213, C34066, C36087, AA680472, D15397, C64582, R86582, R86522, C27111, C36743, C35897, AA566574, C38254, C30288, R86469, AA979898, T43578, AA415121, C72197, C19527, R86465,

40

SEQ ID NO: 213

U33818, U75686, D12799, X57483, M27072, Z48501, Y00345, U10455, AF032896, X65553, AF001290, X75959, U68096, U68094, AC000374, AL008725, AF043297, U61983, AE001162, AC002426, AC002468, Z99571, AC001645, M62322, AF010151, L19418, U10438, AC004068, U24491, AL021961, L05109, U50065, M38019, X97249, M55163, AA486375, AA158440, F00298, AA196312, AA194420, Z21267, AA188891, R17538, AA453382, AA453284, AA375867, AA171870, AA188750, AA486626, T62784, AA312133, AA247691, R19420,

AA750079, AA193786, R29962, D65527, W23328, AA566423, C55391, C11243.

- W74246, AA351480, AA285253, AA152064, AA361741, AA373063, AA056307, AA361546, R87216, T69963, AA377926, AA101951, H18542, T28812, AA220979, AA319539, H65031, AA384795, H22721, AA380413, AA422010, AA091008, T62932, AI004148, R17340, W40155, AA385613, AA318252, D82637, AA361702, AA382298, AA361898, N86589,
- 5 AA196938, AA367226, AA318103, R85578, AA304761, AA356885, M78295, T66254, AA340702, AA085890, H30431, F13450, T85189, AA360664, AA083991, AA916946, N95514, AA094447, AA146756, AA517715, AA530373, AA068153, W48104, W45901, AA549198, AA794203, C81574, AA675536, AA545226, AA681546, AA413709, AA589633, AA794553, AA645633, AA543952, AA080540, AA920538, AA655813, AA560746,
- 10 AA543742, AA855593, AA059627, AA144201, AA239102, AA041692, AA561318, AA117203, AA684154, AA543470, AA549355, AA541855, AA672755, AA529650, AA098209, AA067786, AA674118, AA217996, AA547472, AA261638, AA068210, AA065421, AA109586, W65980, AA110011, AA183483, AA162612, W35997, AA638251, C80232, AA571125, AA162363, W62769, W75448, W99071, AA667343, AA033491, W66633,
- AA755612, AA387191, AA692410, AA727586, AA048661, AA051437, AA217183, AA386779, AA656576, AA727531, AI028973, AI030229, Z71862, AA684843, H35169, H56873, AI007576, W59838, AA439587, AA979103, AA940632, AA735861, AA696026, AA390979, AA802472, AA816582, AA538639, AA695329, AA202584, AA696576, AA539606, AA539099, AA439983, AA941996, AA949560, AA942271, AA950752,
- AA978967, AA538584, AA979102, AA941013, AA439362, AA940867, AA201233, AA263555, AA698775, AA439514, AA539726, C31022, AA263809, AA948939, AA391644, AA202460, AA951608, AA697265, AA804029, AA801635, AA263953, AA978695, AA440542, AA820598, AA567211, AA441090, AA441331, AA201345, AA803058, R90714, R90213, AA680470, AA698275, AA566362, AI035122, AA698277, D41636, C38254, C53650,
- 25 C55391, C64582, D15397, R29962, W23328, AA944626, D24277, D41589, R86522, AA680472, AA818616, D24141, D40735, W03989, C27111, AA979898, R86465, D65527, AA819137, D46757, D39435, AA193786, AA566423, C72426, R86469.

1996年 · 1996年

医马克斯氏试验检孕妇的现在分词

30 SEQ ID NO: 214

- U33818, U75686, AF050157, AC004140, X57483, AF032896, M27072, X65553, AF043297, AC004673, X75959, Y00345, AF001290, Z48501, L14644, AF004282, AF038613, AF068865, M97812, Z82068, Z81570, AA876341, AA745823, AA757071, AI016337, AA580267, H97478,
- AA523769, AI004460, W58446, AA995123, AA906016, N67730, AA218964, W58481, AA745487, AI002469, N33241, AA946914, R96357, W37536, N21366, N32946, AA158441, AA665959, F22228, AA836484, AA291176, AA196183, R94183, AA761561, H97393, AA632152, C02223, T64875, H97408, AA872007, H18434, AA189107, AA399466, AA575883, D53740, R39560, T27010, T27506, AA192177, T17055, H24885, AA621511,
- Z21262, AA746979, R42720, T30509, T34307, AA293382, AA350071, T89408, N73829, T92004, N70721, AA092470, AA938979, AA847618, AA055563, AA095836, AA715804, T32576, AA486221, H98021, N31316, AA194566, H98034, R94184, Z17346, AA308822, W00872, AA886735, AA301502, AA749059, AA772448, AA824475, AA813387, AA411260, AA411185, W90707, AA553396, AA331013, AA047652, AA675896, T50370, AA729392,
- W60261, H41953, N87739, AA033548, AA431839, W58521, AA007137, AA301744,
 AA978233, AA746819, AA462194, AA260606, AA008245, AA198212, AA189192,
 AA240441, AA414348, W98490, AA016494, AA691010, AA623846, AA511096, AA656757,
 AA675223, AI050266, AA435090, AA466884, AA435437, W10945, AA266895, AA267701,
 AA266882, AA608041, AA608040, AA407350, W35888, AA543129, W66988, W11964,

AA794417, AA170349, AA710366, AA560598, AA222621, AA607770, AA117196, AA117197, AA497794, AA655917, AA863935, AA690541, AA050116, AA561346, AI020705, AA267316, AA616897, AA688511, D76926, AA118144, AA575633, AA407008, W57260, W97241, AA499168, AA589023, AA407163, W66681, AA596527, AA591993, AA008270, C80705, AA759821, AA426846, AA474199, AA607312, AA106783, AA759930, AA117944, AA272487, AA434838, C78518, AA409986, AA797916, AA574848, AA216911, W89434, AA139140, AA967240, AA166066, AA560843, W84301, AA563137, AA590504, AA538443, AA596775, W70725, AA242468, AA271319, AA124706, AA271429, AA438185, AA545226, AA517208, W15034, W43967, AA959868, W71912, C76466, AA617221, AA389144, AA799943, AA875662, AA891138, AA891359, AA963788, AA606181, AA605910, AA606211, AA606151, AA566626, R62127, AA893752, AI008277, AA852037, AA945749, AA899385, AA859407, AA926018, AA900233, AI009672, W35650, W43098, U83076, AA850230, AA925882, AA735360, R04551, AA894297, T67354, M89321, C44938, D36988, T20410, R62043, C43025, T15008, AA264836, AA851992, AA899881, AA901370, AA850384, C50073, AA996808, AA799495.

SEQ ID NO: 215

- U33818, U75686, AF050157, AC004140, X57483, M27072, AF032896, AF043297, X65553, AC004673, AF001290, X75959, AF004282, L14644, AF038613, Z82068, Z81570, AA745823, AA876341, AA757071, AI016337, AA580267, H97478, AA523769, AI004460, W58446, AA995123, AA906016, N67730, AA218964, W58481, AI002469, AA745487, R94183, N33241, AA946914, R96357, C02223, N21366, W37536, AA158441, N32946, F22228,
- AA665959, AA836484, AA291176, AA196183, AA632152, AA761561, H97393, T27506, AA291176, AA196183, AA632152, AA761561, H97393, AA632152, AA761561, H97393, AA632152, AA761561, AA196183, AA632152, AA76184, AA76 D53740, T64875, H97408, AA872007, T30509, Z21262, AA575883, H18434, AA399466, 164875 AA189107, TAA293382, T27010, R39560, AA621511, T34307, AA192177, T17055, H24885, TAA293382. AA746979, AA095836, AA092470, AA938979, R42720, T89408, AA350071, H98021, AA093836 N73829, N31316, T92004, N70721, H98034, AA847618, AA055563, W00872, AA715804, N 1116, T920
- AA308822, AA194566, T32576, AA331013, AA486221, AA886735, AA772448, AA749059, AA813387, AA824475, AA411260, AA411185, W90707, AA553396, AA047652, AA301502, T50370, Z17346, R94184, W95592, W03576, AA729392, AA462194, AA260606, AA008245, AA240441, AA198212, W98490, AA189192, AA414348, AA016494, AA511096, AA691010, AA623846, AA435090, AA675223, AA656757, AI050266, AA466884, AA266882, AA435437,
- W10945, AA266895, AA267701, AA608041, AA608040, W35888, W71912, W11964, AA543129, W66988, AA794417, AA170349, AA560598, W66681, AA222621, AA607770, AA117196, AA117197, AA497794, AA655917, AA863935, AA690541, AA050116, AA561346, AI020705, AA267316, AA560843, AA688511, AA616897, AA407163, AA545226, AA575633, AA589023, AA407008, AA499168, W84301, W97241, AA967240, AA596527,
- AA591993, AA008270, C80705, AA759821, D76926, AA426846, AA474199, AA607312, W57260, AA759930, AA117944, AA272487, AA434838, C78518, AA409986, AA797916, AA574848, AA216911, W89434, AA139140, AA166066, AA106783, AA118144, W70725, AA563137, AA590504, AA538443, AA710366, AA596775, AA271319, AA242468, AA438185, AA271429, W43967, AA517208, AA124706, AI049037, C76466, AA959868,
- AA409993, AA799943, AA875662, AA891138, AA963788, AA891359, AA606211, 45 AA606181, AA605910, AA606151, AA566626, R62127, AA893752, AI008277, AA945749, AA852037, AA899385, AA859407, AA926018, AA900233, W35650, AI009672, W43098, AA735360, R04551, C43025, AA264836, AA899881, AA851992, U83076, R62043, AA850384, AA996808.

SEQ ID NO: 216

U75686, U33818, Y00345, Z48501, X65553, D12799, X57483, AF032896, M27072, U10455. M38019, L05109, U68093, AF001290, X75959, U68094, AL008725, U68096, AC000374, U24123, Z50110, AF043297, AE001162, U61983, AC002468, AC002426, AC001645, Z49066, L19418, Z99104, D26185, AL023496, X97051, J04560, X54815, X54547, AJ006158, Z38059, U07228, U34884, AJ006152, AJ006156, U51243, U02604, U49845, AF010151, AA486375, AA375867, AA196312, AA158440, AA453382, AA453284, AA220979, AA319539, F00298, AA318103, AA422010, AA486626, AA171870, AA188750, AA361702, Z21267, AA312133, T62784, AA255906, AA361898, W74246, AA247691, R19420, AA373063, AA285253. AA351480, AA361741, AA152064, AA056307, AA361546, AI004148, AA384795, AA358393, R87216, AA377926, AA101951, T69963, N86589, AA248355, H65031, AA091008, AA382298, AA380413, H22721, T62932, W40155, D82637, AA422136, AA318252. AA385613, AA194420, T19111, AA367226, F13450, T66254, AA340702, H30431, AA304761, AA356885, AA085890, T19451, AA916946, AA146756, N21835, W76571, AA291606, AA281761, AA987923, AA186762, AA517715, W48104, AA675536, AA068153, AA530373, AA261638, W35888, C81574, AA162612, W99071, AA727586, AA727531, AA545226, AA413709, W35997, AA183483, AA589633, AA794553, AA645633, AA543952, AA080540, AA547472, D77409, AA756055, AA655813, AA543742, AA560746, AA684154, AA117203. 20 AA059627, AA561318, AA239102, AA144201, AA041692, AA855593, AA549355. AA067786, AA674118, AA529650, AA217996, AA672755, AA098209, W45901, AA549198. AA065421, AA068210, AA794203, W65980, AA109586, AA895401, AA110011, AA795409, AA638251, AA840242, AA644770, AA571125, W75448, W62769, AA217183, AA103034. 25 AI028973, AA942271, AA951608, AA979102, AA941292, AA940632, Z71862, AA978967, 《日本A949560, AA948939, AA978577, AA978695, AA941470, AA820598, AA979103。第35666773 AA950752, AI030229, AA816582, AA539099, AA804029, AA390345, AA439983, AA698004, S AA941013, AA538584, AA439362, AA441205, AA940867, AA567213, AA735831, AA667213, AA6672 AA202460, AA539606, AA697265, AA391644, AA698775, AA539726, AA735861, Market Name of the AA202460 AA698775, AA539726, AA698775, AA539726, AA698775, AA539726, AA698775, AA539726, AA698775, AA 30 AA440542, AA567211, AA201233, AA390979, AA538639, AA696576, AA695329, AA820079, AA202584, AA201345, AA696026, AA439514, AA802164, AA201654. AA439587, AA803058, AA941996, AA801635, AA684843, H35169, D75214, C62333, D35431, C46263, D35533, C66673, C39459, D35888, D36845, D37554, C39840, C42713, C48422, C51205, C40386, C40859, D35317, D36624, C43542, D36210, D36425, C47685,

40 SEQ ID NO: 217

D46757, C08440.

U33818, U75686, AF050157, AC004140, X57483, AF032896, X65553, M27072, AF043297, L05109, M38019, AC004673, Y00345, Z48501, AF004282, L14644, X75959, AF038613, Z82068, Z81570, AF068865, M97812, AF001290, AA876341, AA745823, AA757071,

AI007576, R90714, AI035122, AA660085, C08701, D39435, C49711, D40735, D41636.

AA580267, AI016337, H97478, AI004460, AA523769, AA995123, W58446, AA906016, N67730, AA218964, W58481, AA745487, AI002469, N33241, R96357, AA946914, W37536, AA158441, N21366, N32946, AA665959, F22228, AA836484, AA291176, H97393, AA196183, R94183, AA761561, AA632152, C02223, T64875, H97408, AA872007, H18434, AA189107, AA399466, AA575883, R39560, T27010, D53740, T27506, AA192177, T17055,

H24885, AA621511, AA746979, Z21262, R42720, T30509, AA293382, AA350071, T89408, T34307, N73829, T92004, N70721, AA092470, AA938979, AA847618, AA095836, AA055563, AA715804, H98021, T32576, N31316, AA486221, AA194566, H98034, R94184, AA308822, W00872, Z17346, AA331013, AA749059, AA411185, W90707, AA553396, AA047652, AA886735, AA301502, AA772448, AA824475, AA411260, AA813387, AA675896, T50370, W95592, N30483, Z25226, AA729392, AA033548, AA431839, W58521, AA007137, AA301744, AA978233, W03576, AA462194, AA008245, AA260606, AA198212, AA189192, AA240441, AA414348, W98490, AA016494, AA691010, AA623846, AA511096, AA656757, AA675223, AA466884, AI050266, AA435090, AA435437, W10945, AA266895, AA267701, AA608040, AA608041, AA266882, AA407350, W66988, AA543129, AA216911, 10 AA434838, AA166066, AA794417, W89434, AA139140, AA560598, AA008270, AA596527, W66681, AA222621, AA607770, AA499168, AA117196, AA497794, AA050116, AA863935, AA690541, AA117197, AA561346, AA267316, W57260, AA616897, AA407163, AA575633, AA407008, AA759821, W97241, AA688511, AA574848, AA797916, AA967240, AA117944, AA759930, AA607312, AA591993, AA474199, AA655917, AA118144, W84301, AA560843, AA589023, W35888, W70725, C78518, AA409986, AA106783, AA271319, D76926, C80705, AA170349, AI020705, AA426846, AA272487, AA710366, AA563137, AA590504, AA517208, AA538443, W15034, AA596775, W11964, AA242468, AA124706, AA271429, AA438185, AA545226, W43967, AA959868, AI049037, C76466, AA617221, AA389144, AA799943, AA875662, AA891138, AA891359, AA963788, AA606181, AA606211, AA605910, AA606151, AA566626, R62127, AA852037, AA899385, AA893752, AA945749, AA859407, AI008277, AA926018, AA900233, AI009672, W35650, W43098, U83076, R04551, AA850230, AA925882, AA735360, AA851992, T20410, T15008, C43025, W43821, AA264836, AA850384, AA996808, R90420, T67354, AA799495, D36988, C44938, C50073, M89321, R62043. 25 a or state of the state of the state of the

SEQ ID NO: 218

17.

"你一点的原因不是……"

10年,10日年初10年日2月1日年日 - 10日日 - 10日 U33818, U75686, AF050157, AC004140, X65553, AF032896, X57483, AC004673, AF004282, M27072, Z81570, M97812, Y00345, Z48501, AF038613, Z82068, AA876341, AA745823, AA757071, AI016337, AA580267, H97478, AA523769, AI004460, AA995123, W58446, AA906016, N67730, AA218964, W58481, AA745487, N33241, AI002469, R96357, AA946914, AA158441, N32946, W37536, AA665959, F22228, AA836484, AA291176, AA196183, H97393, AA632152, AA761561, R94183, N21366, H97408, AA872007, C02223, T64875, AA189107, AA399466, H18434, AA575883, T27010, R39560, AA192177, T17055, H24885, AA621511, AA746979, R42720, D53740, AA350071, T89408, N73829, T34307, Z21262, T27506, T92004, N70721, AA847618, T30509, AA055563, AA293382, AA092470, AA938979, AA715804, T32576, AA486221, AA194566, R94184, AA095836, H98021,

CANAL PROPERTY.

- Z17346, N31316, H98034, AA729392, AA130979, D55392, AA533637, AA715721, AA720553, AA491878, AA417222, AA506606, N31457, AA664970, AA223578, AA598879, W60261, H41953, N87739, R81314, AA033548, AA431839, W58521, AA203481, AA007137, AA301744, AA978233, C06147, R02778, AA746819, AA462194, AA260606, AA008245, AA198212, AA189192, AA414348, AA240441, W98490, AA016494, AA691010, AA623846,
- AA656757, AA511096, AA675223, AA466884, AA435437, AI050266, AA266895, AA435090, 45 AA267701, W10945, AA608041, AA608040, AA266882, AA407350, W66988, AA543129, AA166066, AA008270, AA759930, AA596527, W66681, AA222621, AA560598, AA499168, AA117196, AA117197, AA497794, AA655917, AA863935, AA690541, AA561346, AA267316, W57260, AA616897, AA050116, AA688511, AA575633, AA407008, AA118144,

- W97241, AA967240, AA591993, AA607770, AA407163, AA474199, AA117944, AA434838, AA797916, AA794417, AA759821, AA139140, AA574848, W89434, AA216911, AA607312, C80705, AA170349, AA710366, AA560843, W84301, D76926, AA106783, AA589023, AA426846, AI020705, AA272487, C78518, AA409986, W70725, AA545226, AA563137,
- 5 AA590504, AA538443, AA596775, AA271319, AA242468, AA517208, AA271429, AA438185, W11964, AA124706, W35888, AI049037, W43967, C76466, AA959868, AA409993, AA617221, AA895638,
 - -AA799943,-AA875662, AA963788, AA891359,-AA89138,-AA566626,-AA945749,------AA926018, AA859407, AA900233, AA852037, AA899385, AA893752, AI008277, AA606211,
- 10 AA606181, R62127, AA605910, AA606151, AI009672, W43098, AA850230, AA925882, U83076, R90420, T20410, AA799495.

SEQ ID NO: 219

15

- U33818, U75686, D12799, Y00345, Z48501, X65553, X57483, AF032896, M27072, U10455, L05109, M38019, U68093, AF001290, X75959, U68094, AL008725, U68096, U24123, AC000374, Z50110, AF043297, AC002426, AC002468, U61983, AE001162, X02868, L19418, AL021961, X97051, AC004784, M62322, U24491, AJ006152, X97249, AF010151, J04560,
- 20 X54547, U10438, M55163, AJ006156, X54815, AJ006158, AC004654, AC004068, AA486375, AA158440, AA194420, AA188891, AA375867, R17538, F00298, H18542, AA196312, T28812, R17340, AA196938, F00102, W37521, Z21267, H25084, AA453382, AA453284, AA220979, H08705, T77286, R17367, T27011, AA319539, AA318103, AA422010, AA486626, AA379415, AA171870, AA188750, AA361702, R96399, AA312133, T62784.
- 25 AA255906, R19420, AA247691, W74246, AA361898, AA285253, AA351480, AA401953, AA152064, AA361741, AA373063, AA361546, AI004148, AA384795, R87216, AA101951, T69963, AA377926, AA358393, N86589, AA248355, H65031, H22721, AA091008, AA382298, AA380413, T62932, W40155, H78922, AA318252, AA347167, AA379760, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, N56760, R91800, C03993, H94770, H25628, AA385613, H94776, R52413, AA056400, R91800, C03993, H94770, H25628, AA386400, R01800, R018000, R01800, R01800, R018000, R018000, R018000,
- H23386, R56744, H78328, H94769, AA314666, AA303852, AA376845, AA774116, W39453, D56258, AA366534, D82637, AA313472, AA354673, AA367226, R12837, AA368385, AA149671, AA354644, AA180522, AA114086, T19111, AA165091, T19451, AA517715, AA549198, W45901, AA530373, AA068153, W48104, AA794203, AA675536, AA681546, AA543470, AA920538, AA541855, AA261638, W35888, AA162612, C81574, W99071,
- AA727586, AA413709, AA545226, AA727531, W35997, AI020619, AA467691, AA407351, AA545223, AA794553, AA589633, AA183483, AA080540, AA645633, AA543952, AA655813, D77409, AA547472, AA560746, AA756055, AA543742, AA855593, AA144201, AA041692, AA239102, AA059627, AA117203, AA684154, AA561318, AA549355, AA217996, AA067786, AA672755, AA674118, AA529650, AA098209, AA065421,
- 40 AA068210, W65980, AA109586, AA473398, AA571125, AA647192, AA399911, AA617584, AA572052, AA529434, AA473387, AA688594, AA110011, AA546821, AA051730, AA562058, AA108250, AA154026, W77696, AA537244, AA560874, AA145742, AA645194, AA895401, AA867607, AA638251, AA553063, C80232, W71834, W65821, AA041626, AA031045, AA231604, AA562224, AA795409, AA517821, AA921604, W62769, AA840242,
- 45 AA644770, AA717160, AI037666, AA591443, W75448, AA667343, AI028973, AI030229, AA941292, AA820598, AA951608, AA949560, AA942271, AA941470, AA978695, AA979103, AA978967, AA940632, AA948939, AA978577, AA950752, AA979102, Z71862, AA816582, AA804029, AA539099, AA390345, AA440542, AA441205, AA941013, AA202584, AA820079, AA802164, AA940867, AA439983, AA735831, AA439362,

AA263555, AA802472, AA441090, AA263809, AA263953, AA538584, AA539606, AA735861, AA201233, AA391644, AA539726, AA390979, AA695329, AA698775, AA567211, AA538639, AA441331, AA697265, AA438551, AA696576, AA696026, AA201345, AA698004, AA202460, AA439514, AA201654, AA567213, AA439587, AA803058, AA941996, AA801635, H35169, AA684843, D75214, C62333, D35431, C46263, D35533, C66673, C39459, C40859, D35888, D36845, C39840, C42713, C48422, D35317, C51205, C40386, D37554, H56873, D36624, C43542, AI007576, D36210, D36425, W59838, C47685, C31022, R90714, R90213, AA698275, AA698277, AI035122, C08701, D39435.

10

SEQ ID NO: 220

マヤ い フンバリマルいご

U41635, AB002806, AC000028, U09408, U48764, AL022121, AC004249, AF018172, L10038, AB005236, J05272, AC004257, AA247483, AA847587, AA301767, AA383537, AA326733, AA447675, T52904, AA311351, Z98470, AA021447, T52905, AA768056, T57573, AA376472, AA326234, AA447825, AA057822, AA300304, T72427, N25082, AA013336, N25068, T07270, AA130927, AA987429, M85690, Z78374, AA308389, W22396, AA847946, AI015097, AA524605, H43007, AA687762, AA866050, R43064, Z38317, AA584325, AA680035, AA481862, AA604446, R38085, AA916929, AA380906, AA865871, R52542, AA723065, AA372660, AI022349, W24213, AA766199, AA939140, AA757640, AA767766, AA427357, AA457735, R77360, H09218, AA314969, AA194706, AA349248, AA703109, AA181002, AA847638, AI042342, T98541, AA157549, AA294833, AA305025, AA346134, AA559108, H78224, AA877752, AA338059, N99459, AA167677, AA346227, AA915977, AA087921, W82707, AA259495, C87724, AA561718, W30641, AA790196, AA016731, AA015169, W83145, AA833185, AA671234, AT000280, AA539360, D46441, C07190, C48098, C45270, AA098778

1980**3036**6 E600000000 1000**30**660000000000

新文化 **连续接换**体保护性分配点

SEQ ID NO: 221

30

U41635, AB002806, AC000028, U09408, AC004249, AF018172, AL022121, AB005236, J05272, AC004257, U48764, AA247483, AA847587, AA383537, AA326733, AA447675, T52904, Z98470, T52905, AA768056, T57573, AA301767, AA376472, AA326234, AA447825, AA057822, AA300304, T72427, N25082, N25068, AA130927, AA987429, AA311351, Z78374, AA308389, W22396, AA847946, AI015097, AA524605, AA380906, AA766199, R52542, AA757640, AA457735, AA427357, AA723065, AA767766, AA939140, AA372660, W24213, AI022349, AA338059, T98541, AA305025, AA346227, AI042342, AA294833, AA703109, AA915977, H78224, N99459, H09218, AA157549, R77360, AA559108, AA877752, AA167677, AA349248, AA346134, AA181002, AA847638, AA194706.

40 AA314969, AA259495, C87724, AA561718, AA790196, W83145, AA833185, AT000280, C07190, AA749935, AA539360, C48098, C45270, AA098778, D46441, C24808, AA735750, AA951847, AA965558, AA952847, D48752, AA538571, C09425, D49085, AI045521, H36968, AA756959, C73531, U74137.

45

SEQ ID NO: 222

AC000028, U41635, AB002806, AB008003, AB004637, AB008004, U91325, AC003675, Z77458, AC004520, X68143, U64609, AF009736, U90028, AA725086, AI022818, AA777556,

W80633, AA777504, AA772348, AA488436, AA507884, AA909228, W87638, AA576869, AA858010, AA923143, W87639, AA565492, Z98471, AA836268, AA740512, AA600236, AA025446, AI038708, AA888095, AA884036, AA709078, AA780881, AA021448, W51907, AA857736, AA418104, AA405286, AA229590, W78780, AA928537, AA171903, W40580, AA600281, AA693593, T86580, AA418006, AA961576, AA130872, AA255431, T48324,

- AA600281, AA693593, 186580, AA418006, AA961576, AA130872, AA255431, T48324, AA845232, AA229958, AA886449, AA229456, H68808, AA605105, AA524124, AA902821, AA478858, AA847279, AA923719, AA983917, AA291652, AA987429, R92757, AA491510, AA376598, T54460, AA970238, AA479956, AA559082, AA013242, F17590, AA879092, H68906, AA487566, T57526, AA037271, AA873358, C01029, AA376596, AA988066,
- T86757, AA987454, T48323, AA229231, AA336140, AA376597, W35316, AA485436, W23716, AA364121, AA025464, D79251, R31165, AA196163, AA524605, T24754, AA701171, AA376594, AA229681, AA196291, AA912446, AA364585, AA314071, AA455742, AA353725, AI037001, AI036984, AA142403, AA242672, AA103784, AI006503, AA162689, AA260290, AA274880, AA562859, AA116500, AA509856, AA689953,
- 15 AA553076, AA267303, AA771090, AA395935, AA209939, AA764542, AA856290, AA189943, AA623771, AA209824, AA246017, AA289682, AA920074, AA200743, AA184793, AA546811, Z84196, AA955565, AA819004, AA997860, C26797, AA964402, AA735044, AA818212, AA818816, AA699213, D39769, D21937, D23574, AA676114, W35615, AI012085, AI043801, D39954, AA567379, AA661038, AA676019, AI010262,
- 20 AA651403, C23200, AI012034, AA736167, C27170, AA440511, T70632, C27682.

SEQ ID NO: 223

- AB002806, U41635, AC000028, AB008678, X17698, U70439, Y07969, AL024454, Y07569, U12634, U34777, AF025654, AC004249, AC004318, AC004114, U48764, AB009023, L10038, AB012143, AB005236, AF018172, X68970, AB012142, AB009022, J03975, AC004257, Z49212, J04668, AB005234, J05272, U46025, AB009024, AC004120, AA247483, AA326733, AA847587, AA301767, AA383537, T52904, AA447675, AA311351, AA021447, AA447825,
- AA300304, AA013336, T72427, T07270, AA130927, AA376472, M85690, Z98470, N25082, AA057822, Z78374, T52905, AA768056, AA481862, AA916929, AA584325, AA865871, AA866050, AA604446, H43007, Z38317, R38085, AA687762, AA680035, R43064, AA985188, AA171429, AA622348, AA158538, T61524, AA525505, AA652541, AA191710, AA566012, AA679719, AA165421, AA165584, AA244109, AA244110, AA056602,
- AA465023, AA807725, AA156040, AA301726, AA179228, AA565645, T94834, AA669231, AA766199, R52542, T34213, T27501, AA757640, AA427357, AA457735, AA767766, AA723065, AA939140, W24213, AA305985, AI022349, AA338059, AA194706, T98541, T39129, AA346227, AA915977, N31076, AA703109, H09218, N85861, N99459, AA157549, T24682, AI022293, H78224, R77360, AA167677, AA349248, AA559108, AA181002,
- 40 AA346134, AA847638, AA294833, AA314969, AA087921, W82707, AA259495, AA561718, W30641, AA015169, AA016731, W59606, AA241136, AA671234, AI005955, AA833185, AA920585, AA517901, W36961, AA718256, C85551, AA000810, AA239590, AA052206, AA596717, AA048997, AA637394, AA041758, AA517295, AA171305, AA219992, W12888, AA833183, AA655890, AA066712, AA117176, AA474773, AA499828, AA435261,
- AA726808, AA589213, AA955263, AA848496, AA897810, AA684640, AI008840, AA735790, AI012710, C90564, AA685125, C47184, C48098, C32154, C46092, AT000280, L46458, AA749935, AI046063, N65197, C45270, C09163, AA539360, AA098778, C07190, C47454, AA965558, T13875, T01634, AA392380, R29971, AA952847, D68714, AA538571, AI045521, C24808, C40596, C35231, C73531, D49085, W66334, U74137, C43076, D48752, AA735750,

AA951847, F14689, C29139, H74544, C09425, C24682, D67219, AA887359.

SEQ ID NO: 224

U41635, AC000028, AB002806, AB008003, AB004637, AB008004, AC003675, U90028, AC004520, AI022818, AA777556, AA725086, AA488436, AA772348, AA777504, W80633, AA909228, AA507884, AA858010, AA923143, AA576869, W87638, W87639, AA565492, Z98471, AA740512, AA884036, AA888095, W51907, AA709078, AA600236, AI038708,

- AA021448, AA857736, AA418104, AA780881, AA025446, W40580, AA928537, AA836268, AA171903, AA693593, AA600281, AA229590, AA418006, AA961576, AA405286, AA255431, T48324, AA130872, AA229958, AA845232, AA886449, AA229456, AA524124, AA605105, AA478858, AA847279, W78780, AA902821, AA923719, AA983917, AA291652, AA491510, T54460, T86580, AA970238, R92757, AA987429, AA376598, AA559082,
- AA479956, AA013242, H68906, AA879092, AA487566, AA873358, T57526, F17590, 15 AA037271, C01029, AA376596, AA987454, AA988066, T86757, AA229231, AA376597, W23716, AA485436, AA364121, D79251, AA196163, H68808, AA701171, T24754, AA376594, AA912446, T48323, AA455742, AA336140, AA229681, W35316, R31165, AA025464, AA576355, AA853684, AA364585, AA524605, AA196291, AI037001, AI036984,
- AA162689, AA116500, AA562859, AA260290, AA274880, AA509856, AA184793, AA267303, AA771090, AA246017, AA623771, AA546811, AA189943, AA395935, Z84196, AA955565, AA819004, AA735044, AA818212, AA818816, C26797, D21937, W35615, D39954, AA661038, D23574, D39769, AI010262, C11235, C11348, AI012034, C27682, C27170, C23200. 25% Shall be been a series of the series

SEO ID NO: 225

计自由 经销售存储等

X78933, X07290, X52356, L32164, M99593, Y00850, X12592, M36514, M15709, AC005261, AC004696, AC003002, AF033199, U81557, D89928, X78925, AL021918, AC004017, U09368, U66561, X64413, X52533, X89264, M92443, AC002519, L77247, AB010372, S54641, AB007872, X81804, M27877, AL022393, D10627, X16281, D31763, U09367, U57796, U28687, X70394, U37263, U37251, X68011, D10632, AF020591, U88080, M27878, L32163, U48721, M88359, X79828, AF024709, X69115, AF011573, Y10929, X17617, U56862,

- D70831, M36146, AC003682, X52332, U09852, X78926, AB010373, AL021997, X78931, L11672, L36316, X74855, D45210, X78924, AC003973, X51760, X68684, X78932, AC003006, M36516, L16904, L20450, D10628, S52507, L28802, X69116, U35376, AF027140, M55422, M96548, X73897, Z95704, AF027147, AC004004, Z96138, X73895, L35269, X07289, U69133, AF003540, U78722, X84801, L75847, L15309, AA491488, AA115318,
- F07386, AA481221, H17858, F05579, AA599717, R88880, R89645, F05578, AA773248, AA295275, AA730306, W68223, AA860989, AA252461, AA418246, AA083811, AI016606, AA476564, H05857, R21372, AA443369, N80080, R08512, H80390, AA088626, W07223, AA130554, AA134518, R97364, AA159900, AA626677, AA984704, M78146, H19309, R95836, T07511, AA665316, AA130717, T07512, N84888, W28368, T56944, AA471338,
- AA026736, N47183, AA081943, AA354359, AA165008, R70961, AA455712, AA903551, AA324611, N49093, AA330257, AA278662, AA384152, AF026101, AA632636, AA283909, AA427841, H17015, N29327, AA210784, T05813, AA457311, N57019, AA682749, T64207, AA495843, AA974380, H05892, AA161185, AA334780, AA632298, N29001, AA234320, N98899, AA127003, AA214032, W26008, AA046794, AA211186, AA076467, AA176763,

T47250, AA083845, AA635575, AA635567, AA716653, H81495, AA166907, M77976. F07748, AA018330, AA379532, AA456534, W31899, H38307, AA615956, AI043118, AA240059, AA435439, AA612258, AA244987, AI047413, AI035237, AI042916, AA117053. AA189434, AA155283, AA562594, AA797641, AI036166, AA097760, AA044497, AA476109, AA896035, W14162, AA799068, W75531, AA239494, AA175620, AA562383, AA409820, AA140301, AA798457, AA799050, AA616580, AA867000, AA529691, AA666855. AA098301, AA097579, AA726604, AA839547, AA154311, AA499468, AA271667, AA451420, AA172466, AA117284, AA624111, AA123822, AA981211, AA102943. AA119538, AA172972, AA981587, AA474782, AA666789, W91712, AA104086, AA242194. AA427186, AA073347, AA980878, AA414390, AA414083, AA980960, AA122779, AA611311, AA110661, AA738624, AA184177, AA616442, AA764391, AA681464, AA079904, AA155148, AA036225, AA537315, AA444998, AA123106, AA716903. AA930937, AA543731, AA178652, AA285425, AA624117, AA177740, AA896323, AA575639, AI046551, AA920944, AA119762, L26825, AA522401, AA792248, AA667108. AA606643, AA068528, AA087480, AA546639, AA797318, X61884, AA536874, AA999112. H34344, C06870, C06945, H31120, C39828, C83273, AA848430, AA891600, AI030120. C82417, AA957915, H34728, AA957859, AA441547, AA965203, AA892221, AA893091. AA550029, AA570906, U19691, AA686274, AA892391, AA497308, H31100, AA605784, AA542644, C66726, AI007760, AI043689, AA440293.

140

20

SEQ ID NO: 226

X79131, AE000611, X80760, Z68144, AC005212, AA459031, AA641741, AA039315,
AA249143, W88763, AA906626, AA907163, AA486150, AA627144, W33121, T99589,
AA010912, T99582, AA608979, AA831394, AA988670, AA810777, N32049, N23351,
AA011303, AA387753, AA259894, AA230751, AA795844, AA611861, AA175283,
AA170563, AA537808, AA624139, AI026540, AI007406, AA842397, AA996566, C84712,
AI026541, AA750628, AA549974, AA956255, T37093, AA998117, AA979129, AA952041,
AI001407, AA263839, AA946466, AA952243, N38666, T03963, Z25965, AA818739,
AA739870, AA689213, H76269, AA701709, D32381, AA042638, AI013505, C21985,
AA567067, T04418.

H 38764 0

武學58%。4

3 A 3 A 7 A 5 A

1.1519.00

人。27年的特別的

35 SEQ ID NO: 227

U61976, U87145, AD000091, AA761721, AA766404, AI026897, AA810879, AA731675, AA490917, AA398748, AA761478, H66030, R91436, AA724571, H71908, H71907, R82263, H66075, H47305, R28259, AA862220, AA393340, N57120, H80421, AA078203, AA234560, W01054, AA907169, N76229, R68882, AA282007, W54620, W13987, AA990152, AI047764, AA968343, AA109154, AA273420, AA841045, H77125, N65155, T88352, R89943, T42196, AA818889, H75996, T46234, AA391396, T22676, AA605413, T75727, R90093, AA713001, T21829, T88293, AA956917, H37309, AI012358, T44139, AA712971, W43125, N38623, T76898, Z72419, AA394336, T41804, N37444, C66953, C70896, H76091, T45022, AA998951, N65777, C63712, C13094, N97055, N38282, AA067529, T20629, AA695398, C90104, H76347, T88628, T46514, AA439518, R90522, N65609, N65553, R04449, T04713, T44937, C69200, T44234, N37443, R29927, T76221.

SEQ ID NO: 228

U72149, Z49308, AP000002, M31431, Y10854, Z79429, D90223, D12686, AF012088, Z48244, AC000097, AB005297, AB009484, U39696, U01694, W73345, AA884998, W32183, AA211437, W73514, H87789, AA910426, D81990, AA463817, AI025900, AA074995, N63023, W01775, N79274, W84869, T77957, R25694, T85644, AA150473, T74453, AA044942, M62195, H10187, Z25139, R12167, F05247, AA690101, AA726818, AA184412, AA681116, AA867335, AA432923, D39338, T37604, H35717, AA712694, D76146, AA803322, AA849833, Z84046, C88431.

141

10.

SEQ ID NO: 229

U50871, Z68873, U96409, AC002123, Z97198, AF064862, Z49862, AC004006, Z85997, AL008713, AF064865, Z85998, AL020991, Z83821, Z75741, AC004014, Z73986, Z82975, AF020803, AC004027, Z93018, AJ229041, AC004535, AF015720, AC003692, Z81365, Z70225, Z68871, AC004459, AC002381, Z70758, AC000389, Z83850, AC005201, AC002086, M68841, AF068624, AF027390, Z76735, AC002067, Z92547, Z94055, AC002065, Z71182, Z84814, Z97181, AC004081, Z84720, AC003086, AC004711, U63313, AC003013, Z82203,

- U82828, AL022069, AL008633, AC000112, Z80362, AC005248, AC004035, AC002367, Z82211, U95737, AC000127, AC004097, AC003083, AP000016, AC002458, AC004746, AC002981, Z94721, U91324, AC003666, AC002056, U59962, AC002386, U96629, AC002456, AC003977, Z80107, AC004744, Z81009, Z79699, Z92543, AC002122, AC003051, Z82196, Z83313, AF002994, AC004467, AC002106, U93573, AC002461, AC002366, AC004140,
- Z82216, Z84816, AC002430, Z82253, M69297, AA148366, AA564135, AA825623; AA481622, AA564249, AA558463, AA975182, AA622590, AA167264, AA622951, AA203220, AA558786, AA610250, AA085706, AA211212, AA342132, AA760657, AA808692, AA776667, AA736469, AA503117, AA584730, AA179264, AA172331, D57327, H03599, AA179891, AA714581, AA501789, R57964, R14820, AA432115, T07300.
 - AA131481, T07174, AA446799, F07093, AA179658, AI017582, U81226, AA553460, AA551506, AA349831, AA551156, T60595, N44646, AA483270, AA742857, AA768268, F09295, AA654792, AA381013, AA550746, AA719829, AA714455, AA632675, AA252301, AA704567, AA551038, AA493615, AA372560, AA493771, AA610148, AA425144, AA375960, AA564149, AA713837, AA501474, R11143, AA505003, AA505014, AA577804,
 - AA484141, T51061, AA501642, H82631, N20799, R14500, AA993034, AA226681, T07829, AA811843, AA879004, R48661, N23244, AI024916, T06551, AI002981, AA552255, AA808887, N80414, AA559101, AA148747, AA975124, AA905240, AA167491, AA598888, AA331911, AA810853, T49629, C77906, AA038811, C87904, AA562235, AA241049, AA120178, C88029, AA153558, C78452, AI048791, AA184976, AA208915, AA930041,
 - 40 C86095, AA068179, AA386476, AA107124, C91585, C08926, C47186, Z97827, H31388, F13837, C43599, C40509, C39935, D27031, T12954, C06676, AA186207, T03971, AA875516.

SEQ ID NO: 230

45

U41740, U31906, X82834, AF051357, M16515, AE000665, AE001146, U26270, Z84719,

S82456, Z70287, AL022242, Z98552, Z49219, M23122, U20618, Z68908, AC005142, Z84483, Z77752, AC002088, AA354916, AA132579, AA176462, T10747, AA814649, AA828786, T56781, H59845, AA487386, AA572915, AA663121, AI039814, T99024, H19980, AA449129, AI025081, H22694, AA609180, AA210834, H45056, AA836120, AA777526, R89114, H96569, AA380500, C77480, AA647230, AA590640, C78605, AA612362, AA538073, AA144000, AA177258, AA512069, AA982370, AA017993, AA960228, AA177288, AA153926, W63975, W82286, AA799039, AA276817, AA389921, AA550313, AA825078, AI014236, AA566591, AA696643, AA924237, D47512, AA924658, C71745, AA547772, C61373, AA404942, N97854, AA824886, AA946463, C32229, C24783, C33070, AA787333, C26667, AA550200, AF064466, AA041141, C26717, AA892224, AI043458, C28792, H07456, C92480, AA605507, C33265, D37649, AA395246, C61288, AA784068, AA042290, F13833, AA956701, AA893374, AA430867.

SEQ ID NO: 231 15 X82834, U41740, U31906, AF051357, AL021918, L42230, X92669, Z35595, Z77655, M31076. Z68748, U61835, X55713, U63323, Z21677, U76113, U79415, U95052, U39854, U76111, Z98941, L40157, U32274, D49525, X78998, U76112, U73824, X89713, N20922, AA393058, AA936202, N33249, AA779873, AA460981, H99182, H95236, R64018, AA865345, T91725, AA626910, R81347, AA412101, AA872172, N43733, R32081, R63927, R80281, R21240, R80183, D20844, R21241, R81603, R22854, R22853, R32028, H02205, M85542, C16145, C18105, C16050, H95283, N41964, AA889169, N33068, R96076, AA707136, AA832159. AA948070, W57757, AA699720, H82741, R49475, N21348, W94140, AA890361, H86539, AI027352, N24075, AA744829, AI025218, W32532, N48597, AA602610, N67665, N37033. N26036, AA704780, AA872211, AA481759, AA053712, AI042486, N98230, H38681, N25537, AA492013, AA564876, AA665638, AA887102, T33836, AA017487, AA164767, C75216. AA653661, AA857021, R24534, H99749, N35081, W60985, AA586503, AA598522. AA600046, AA629522, AA773262, T56913, T81283, C05590, AA150706, AA329155, AA483385, AA644112, AA661586, T33531, AA774275, AA359475, AI017753, AA063117. AA960654, AA177806, AA734454, AA109493, AA407935, AA529400, AA667098, C79193, AA145323, AA620126, AA981910, AA200736, AA145143, AA543391, AA123214, AA117863, AA286273, AA623034, AA413653, AA838965, AA407743, AA221695, AA690053, C88301, AA623056, AA684519, AA617129, AA450604, AA145084, AA467457, AA146155, AA416288, AA529856, AA259733, W36213, AA590407, AA590191, AA473132, AA499314, AA529605, W09721, AA408503, AA434785, AA882043, C87444, AA118649, AA997635, AI045690, AA998942, D70945, AI009435, AI009369, AA849692, AA849333. AA945711, AA955399, AA899132, AA859186, AA660479, AA660469, C56840, AA891066. D75119, AI029034, C67494, R86825, T76252, AA585797, D64807, AA801762, AA736067, AA897947, C26259, AA803788, D67739, AA696790, AA695900, C83895, AA816766.

SEQ ID NO: 232

40

X82834, U31906, U41740, AF051357, AL021918, Z93374, Z68748, U61835, M31076, X92669, Z35595, Z77655, Z21677, U79415, Z00044, U73824, X52874, X90650, X07675, U76112, U32274, X89713, U76113, X15901, U95052, X68322, U63323, L40157, U76111,

X78998, D49525, Z98941, X55713, U39854, N20922, AA393058, AA936202, N33249, AA779873, AA460981, H99182, H95236, AA865345, T91725, R64018, AA626910, R81347, AA412101, AA872172, N43733, R80281, R32081, R63927, R21240, R80183, D20844, R21241, R81603, R22854, R32028, H02205, R22853, M85542, C16145, C18105, C16050, H95283, N41964, AA889169, AA948070, R96076, N48597, AA707136, N33068, W57757, AA699720, AA832159, N21348, W94140, AA872211, AA890361, AA744829, W32532, N24075, H86539, AI025218, H38681, H82741, AI027352, N67665, N37033, N26036, AI042486, R49475, AA704780, N98230, AA481759, AA053712, AA602610, AI022119, T33531, T33836, R24534, H99749, AA329155, AA492013, AA564876, AA773262, N35081, AA017487, AA598522, AA600046, AA644112, AA653661, AA661586, AA774275, AA857021, N67362, C05590, AA586503, AA150706, AA359475, T81283, C75216, AA063117, AA483385, N25430, AA164767, N91156, AA156272, AI017753, T87844, AA960654, AA177806, AA734454, AA109493, AA407743, AA838965, AA221695, AA286273, AA408503, AA200736, AA499314, AA529400, AA620126, AA623056, AA416288, AA543391, C79193, AA407935, AA259733, AA117863, AA981910, C88301, AA590191, AA450604, AA623034, AA684519, AA145323, AA145084, AA667098, AA617129, AA146155, AA123214, AA467457, AA529856, W36213, AA690053, AA590407, AA473132, AA145143, AA529605, AA413653, AA413915, AA434785, C87444, AA118649, AI045690, AA997635, AA998942, D70945, AA849692, AA849333, AA945711, AI009435, AA955399, AA899132, AI009369, AI029034, AA859186, C56840, D75119, AA891066, 20 D46956, N61767, C67494, AA787174, D64807, AA585797, R86825, T76252, AA736067, AA801762, AA897947, AA803788, D67739, AA786644, C83895, AA695900, AA816766, AA696790, C26259. and the first property of the first freed of

SEQ ID NO: 233

25 The state of the second of the state of the

U41740, X82834, U31906, AF051357, Z73506, U78774, AC002527, X96770, AC004152, AL021327, AE000183, Z68284, U52112, D90718, D90719, Z70049, Z68193, U63721, AC004084, AC004769, U90094, AC001226, AC002303, Z97988, U88311, Z48618, U91321, AC000373, Z68273, U82672, Z72001, AL023802, AC004000, AC004653, AC004149, AC005266, AC000095, U63313, Z97055, AC004792, AC002350, Z94056, Z81136, U73167, Z80115, AL022396, AC004778, Z69792, U58675, K00060, Z72685, X58824, AC004598, AF047825, U81833, U78027, AD000092, AP000043, Y12773, AC001643, AL031005, AC002302, AF024533, AC002522, X94226, U62293, U51587, AC004513, AC002456, 35 AC004678, AC003692, AC004216, AC003104, U80764, AF001552, Z72684, U21051, AC004525, AP000015, AC003969, AC002319, AC004258, AC002365, AA652247, N24465, N27783, N41964, AA357510, AA887286, AA642632, R80281, R81603, H95283, AA533718, AA244445, AA460200, R44616, AA644545, R67777, AA035603, AA449740, AA424029, AA486555, W93200, R42597, AA890452, R67756, T79593, AA290873, AA653164, AA192147, AA847177, AA634264, AA809963, AA461084, AA565270, AA834582, AA507180, T69524, AA985090, AI003151, H69626, AA772402, AA255722, AA605121, AA987194, AI039085, AA703051, AA953929, AA630127, AA601180, AA765122, AA713761, AA550845, F04900, T62484, AI039232, AA338318, AA218835, C15778, AA165065, AA227713, AA513780, R95060, R83402, H66328, D82325, N59570, D83918, C15060,

AA427968, AA604201, H47228, H47539, H69236, AA224938, AA443491, AA502237,

AA640686, AA669548, AI040487, T27166, T99089, R08004, AA229986, AA230159, AA287495, AA362707, AA177154, M78092, T82953, H93283, AA661761, N22943, AA476395, AA552989, W45688, AA583129, AA622179, AA825906, AA197476, AA461759, AA009086, AA276443, AA146097, W09721, AA152629, AA153732, AI048715, AA109493, C85377, AA469653, AA038354, AA892746, C82723, C83579.

SEQ ID NO: 234

X82834, U41740, U31906, AF051357, AL021918, Z93374, L42230, Z68748, U61835, Z77655, X92669, M31076, U76111, X15901, L40157, X07675, D49525, X78998, U95052, U76112, AF051547, U39854, U63323, Z98941, X89713, U79415, U76113, Z00044, X90650, Z21677, U73824, X68322, U32274, X55713, AA393058, N20922, AA936202, N33249, AA779873, AA460981, H99182, R64018, H95236, T91725, AA865345, R81347, AA626910, AA412101, R80281, R32081, AA872172, N43733, R21240, R81603, R63927, R80183, R21241, H02205 R22853, D20844, R22854, R32028, C16145, M85542, H95283, N41964, C18105, C16050, N24465, R49475, AA872211, H86539, AA602610, H38681, AA744829, N24075, AI025218, AA704780, AI042486, N37033, N67665, N98230, W57757, R96076, AA889169, N33068. N48597, AI027352, AA707136, AA948070, AA699720, W32532, AA053712, AA481759, H82741, AA890361, AA832159, N21348, W94140, N26036, N64169, N69808, AA152414. AA150808, AA826634, AA608693, AA664381, AA729796, M85323, W04704, W45455. AA132690, AA747487, AA873403, AI003070, N34491, N62152, N62798, N91265, AA173949, AA232135, AA489502, AA530875, AA746888, C75065, AA889249, T34029, AA541351, F07116, AA604724, AA177806, AA960654, AA734454, AA109493, W09721, W36213. 25 AA408503, AA450604, AA145143, AA145084, AA146155, AA467457, AA667098 AA690053, AA529400, AA473132, AA123214, AA590191, AA529605, AA413653 AA617129, AA529856, AA259733, AA543391, AA145323, AA117863, AA981910, C79193, AA499314, AA407935, AA200736, AA590407, AA407743, AA286273, AA838965, C88301, AA623056, AA620126, AA416288, AA221695, AA684519, AA623034, AA434785. AA882043, AA118649, C87444, AI045690, AA997635, AA998942, D70945, AA945711. AA849333, AA955399, AI009435, AI009369, AA899132, AA849692, AA891066, AI029034, D75119, C67494, AA859186, C56840, N97217, AA801762, AA803788, AA897947, D67739, AA695900, AA471664, AA816766, N61767, AA696790, AA786644, C26259, AA736067, AA787174, T76252, D64807, AA585797, R86825.

SEQ ID NO: 235

35

U41740, X82834, U31906, Z75536, AC004029, D10543, J05448, Z80107, AJ003067, X07052, S37449, AJ224144, AJ224143, D10457, AL008735, X07051, Z81001, Z36989, AA399685, N47087, W60925, AA029887, AA149524, AA937362, N78320, AA836050, N62088, C17952, AA910195, AA055214, AA826888, W07158, AA157092, AA987986, AA594364, AA664448, AA053558, W24009, R52958, F11272, AA781110, Z45084, AA827538, T80377, T08454, R15196, AA961173, R13116, T33921,

45 AA144704, AA673452, AA118181, AA423734, W66923, AA003241, C33050, C58495, AA118229, AA859504, AA392158, AI050191, C50519, AA952594, T04424, C53405,

AA887351, AA232022, C46064, N97682, C67730.

SEQ ID NO: 236

U31906, U41740, X82834, Z98755, S43653, AC002123, AC000057, AC004533, X17354, AC000022, Z78603, Z97338, AC004468, AL022727, AC002064, L03534, U73639, AA610820, AA508786, AA132892, AA176731, AA481230, T28759, AA220245, W63554, T47910, R59658, W40366, T64813, AA382641, D81632, AA319696, AA282035, AA676689, Z45290, AA009607, H09636, N76049, AA869262, AA521593, AA542298, AA823606, AA275141, AA242651, AA796842, AA929191, AA693189, AA681525, AA879926, AA519018, AA413292, AA545157, AA873945, AA117839, AA734976, AA546409, AA182272, AA174520, AA794821, AA177573, AA870598, AA536935, AA517121, AA414354, AA409394, AA032544, AI044357, T43218, T37212, AA495416, C22529, C48660, C46705, AA660392, F14001, AA898596, AA658639, AA901143, C32906, C25682, C58279, Z29892, AA167882, H77124, AA394618, AA246553.

SEQ ID NO: 237

D67739, AA897947.

20 U31906, X82834, U41740, AF051357, AL021918, Z35595, Z77655, U61835, X92669, U39854, U76113, U63323, X89713, Y08256, D49525, X55713, U76111, U79415, U95052, X78998, Z98941, U32274, U73824, Z21677, AJ000083, U76112, L40157, N20922, AA393058, AA936202, N33249, AA779873, AA460981, H99182, H95236, AA865345, T91725, AA626910, R81347, R64018, AA412101, AA872172, N43733, R63927, R80183, D20844, R21241, R21240, R22854, R32028, R32081, M85542, R22853, C16145, C18105, R80281, C16050, R81603, H02205, N41964, H95283, N33068, AA699720, N48597, AA707136, H82741, N21348, AA832159, AA890361, R49475, AA872211, H86539, AA602610, AI027352, AA481759, AI025218, N98230, N37033, N67665, W32532, W94140, AA744829, AA053712, AA704780, W57757, AI042486, H38681, AA889169, N26036, R96076, AA948070, N24075, AA644112, AA661586, AA774275, T87844, N32578, AA017487, AA063117, AA483385, AA857021, N25430, N91156, AA397651, F22408, AA601531, AA653118, AA730562, AI003166, AI050953, T31459, R15138, AA156272, N32816, AA128834, AA152414, AA653661, AA150808, AA213723, AA489469, N67362, AA723193, T04967, C06330, AA680267, AA826634, F18699, AA960654, AA177806, AA734454, AA109493, AA590191, AA684519, C79193, AA416288, AA617129, AA623034, AA286273, AA529856, AA145323, AA407935, AA407743, AA543391, AA123214, C88301, AA117863, AA590407, AA221695, AA620126, AA667098, AA690053, AA529605, AA413653, AA529400, AA259733, AA200736, AA145143, AA145084, AA981910, AA499314, AA408503, AA623056, AA146155, AA467457, AA473132, AA118649, AA434785, AA882043, AI037745, AI006368, AA178352, AA221215, AA867811, AA960652, AA409857, AA797975, AA547258, AA197890, AA574968, C78959, AA997635, AI045690, AA998942, D70945, AA899132, AA955399, AI009369, AI009435, AA849692, AA849333, AA945711, C67494, AA891066, AI029034, AA859186, C56840, D75119, AA816766, AA695900, AA801762, C83895, D64807, AA696790, AA585797, AA736067, AA850362, AA803788, C26259, AA850361, AJ225449,

X82834, U31906, U41740, AF051357, AL021918, X92669, Z35595, M31076, U61835, Z77655, X89713, U61261, Z68748, U73824, Y08256, U76112, X52874, U79415, L40157, U39854, X78998, U76113, D49525, U32274, X55713, U63323, Z21677, U95052, U76111AA936202, N20922, AA779873, N33249, AA393058, AA460981, H99182, H95236, AA865345, T91725, AA626910, R81347, AA412101, AA872172, N43733, R64018, R63927, R80183, D20844, R21241, R22854, R32028, M85542, C16145, R21240, C18105, C16050, R22853, R32081, R80281, R81603, H02205, N41964, H95283, AA948070, N48597, N33068, AA832159, H82741, AA872211, R49475, N21348, W94140, AA602610, H86539, H38681, W32532, AI025218, N24075, AA053712, N37033, N67665, AA704780, AA890361, AI027352, AI042486, N98230, W57757, AA889169, AA744829, R96076, AA707136, N26036, AA699720, AA481759, R15138, N25430, N32578, N91156, AA128834, AA156272, AA601531, AA653118, T04967, T87844, N32816, F18699, N64169, N69808, AA150808, F22408, AA489469, AA723193, AA729796, W45455, AA730562, N91265, C06330, AA213723, AI050953, AA397651, AA541351, C75065, AA152414, AA680267, AA747487, AA826634, AA889249, AA873403, AA960654, AA177806, AA734454, AA109493, AA408503, AA407743, C79193, AA467457, AA529400, AA146155, AA416288, AA259733, AA145323, AA684519, AA145143, AA221695, AA499314, AA690053, AA407935, AA413653, AA617129, AA145084, C88301, AA200736, AA667098, AA529856, AA529605, AA451328, AA123214, AA981910, AA620126, AA623056, AA623034, AA590191, AA543391, AA473132, AA117863, AA286273, AA590407, AA413915, AA118649, AA434785, C87444, AA178352; AA960652, AA797975, AA146410, AA146428, AA197890, AA146428, AA146448, AA146448, AA146448, AA14648, AA1648, AA1648, AA1668, AA1668, AA1668, AA1668, AA1668, AA1668, AA1668, AA1668, AA1668, AA16 AA867811, AA547258, AA574968, C78959, AA221215, AI037745, W09721, AI006368, AI045690, AA997635, AA998942, D70945, AA955399, AA899132, AA849692, AI009369, AA849333, AA945711, AI009435, AA859186, AI029034, AA891066, C67494, C56840, AA695900, AA696790, C83895, AA585797, AA803788, AA736067, C26259, AA897947, AA801762, AA816766.

30

SEQ ID NO: 239

X82834, U41740, U31906, AF051357, AL021918, X96770, AC002527, Z93374, Z73506, U78774, D90718, AL021327, AC004152, Z68748, U61835, L42230, M31076, AE000183, Z77655, X92669, Z35595, U52112, Z68284, D90719, Z99129, AC004792, X52874, Z81136, Z94056, Z21677, U63313, AP000043, U52951, AC004084, AC004216, AC003969, U76113, AL031005, U51587, X94226, AC002302, U76112, U95052, X95653, X90650, Z68273, AC003104, Z00044, Y08256, U63323, AC000373, U21051, AC003692, U76111, Z48618, AC004525, U39854, AC005266, Y12773, AC003048, U81833, AC000095, Z70049, AF047825, X78998, U90094, D49525, K00060, X58824, AC004598, U73167, U78027, AC004769, L40157, AC001643, U79415, Z72685, U91321, U73824, X07675, N20922, AA393058, AA652247, AA936202, N24465, N33249, AA779873, AA460981, H99182, N27783, H95236, R64018, AA865345, T91725, N41964, AA626910, R81347, AA412101, AA872172, R80281, R32081, N43733, R63927, R81603, R21240, R80183, D20844, R21241, H02205, R22854, R32028, R22853, M85542, C16145, C18105, C16050, H95283, AA357510, AA887286,

AA642632, R49475, R96076, H82741, AA890361, N21348, W94140, AA872211, AA460200, AI042486, N33068, AA889169, AI025218, H38681, AA744829, N67665, W57757, AA533718, AA481759, W32532, AA832159, H86539, AA602610, AA699720, AI027352, N37033, AA704780, N24075, N48597, AA707136, AA948070, N98230, N26036, AA053712, ĀA244445, AA550845, AA765122, AI017753, H99749, AA152414, AA190580, AA601531, AA713761, AI003166, AI050953, T33531, F18699, N25430, N25537, N91156, AA653661, AA632608, T62484, AA644112, AA083657, AA665638, AA987194, AA156272, AA329155, C75216, AA197476, AA461759, AA276443, AA960654, AA177806, AA009086, W09721, AA146097, AA152629, AA734454, AI048715, AA153732, AA109493, C85377, AA469653, C79193, AA467457, AA692865, AA432701, AA620126, AA146155, AA408503, AA200736, AA145084, AA981910, AA529856, AA221695, AA690053, W36213, AA259733, AA450604, AA617129, AA543391, AA667098, AA623034, AA110451, AA145143, AA623056, AA145323, AA413653, AA529400, AA499314, AA684519, AA123214, AA117863, AA838965, AA473132, AA529605, AA407935, AA286273, AA590191, C88301, AA416288, AA407743, AA590407, AA882043, AA038354, AA118649, C87444, AA434785, AA997635, AI045690, AA998942, D70945, AA849692, AA955399, AA849333, AI009369, AI009435, AA964767, AA945711, AA899132, AA891066, D46956, AA892746, C56840, C67494, AA859186, C82723, C83579, AI029034, N61767, D75119.

20

SEQ ID NO: 240

STARLER BUREAU STARLER . 网络哈拉斯克 . 计数据点 AC003974, AC004681, U49436, U22383, AC004044, Z75711, Z83105, Z92847, J05258; M18818, AC004784, AF003137, J03998, Z81037, X62534, AE000790, X94183, U40837, 25 M83665, Z75530, X96770, Z97338, D86405, Z75190, X15965, Z78012, AF013293; AL008709, AE010247, M29366, Z17240, U47009, D87445, AC004679, AC004610, M34309, Z78514, U22451, L10986, Z70307, D50678, AC004641, AA488937, H91281, H13953, AA488860, U66680, T84930, AA348546, AI033691, W20125, AA766268, AA676506, AA455260, AA669443, AI016748, AA514527, AA594506, AA927484, AA465641, AA280785, AA112679, AA534892, AA864182, C02000, U66672, T52063, W72084, AI022067, W60824, AA355440, N85861, H14421, D54216, AA580516, N85718, AA453572, AA936958, AA115366, AA583543, AA857352, AI025354, AA296993, Z39747, Z42251, AA469426, AI049628, AA564289, W88652, AA541325, AA577099, AA173182, H44173, AA730547, AA938221, W35220, AI027945, R66803, N52377, AA447940, AA115143, AA989249, AA384314, H40132, AA974398, N24259, AA730906, AI027336, AA978016, AA555064, AA581982, AA573808, AA730329, AA829123, AI026739, AA226708, AA470940, AA181983, AA165148, AI031708, AA868807, AA913828, H41695, AI017209, AA243337, AA664947, AA527284, W07111, AA446617, AA707299, AA641308, AA626200, AA969113, AA977560, AA444646, AA759637, AA414743, AA475628, AA921663, AA794966, AA547558, AA913969, AA197970, W14297, W97059, AA674333, T42196, T88646, N65155, R89943, T88321, T76015, H77125, H76836, T45767, D71919, AT000266, Z30469, AA280453, Z26570, C40572, T22504, AA566286, D74603, R95510, AA605935, D48803, AA785360, AA167895, T42810,

C90299, AI028921, R30419, T42287, H76786, W43682, D46739, AA549907, AA555403, C43269, T04097, C47161, D67769, AA712800, D36501, D72348, Z29196, D43523, D42364, Z33946, AA898732, T14148, N98073, D72527, Z35049, AA167896, AI011733, C34075,

AA566644, C55866, Z47407, H33666, Z34086, AA739922, T37694, R62003, AA879381,

AI044036, AA532328, T42192, D73146, C28198, D66467, W05891, T38712, T22899, AA141398, T22427, T88557.

5 SEQ ID NO: 241

U43400, AF037218, AC000123, Z70224, Z99281, AC000127, Z74739, D14635, Z80107, U13614, U30248, X00417, AC004629, AF039037, Z35719, AL022148, U40160, Y12024, Z71265, U49940, AP000013, N22346, C16161, AA614449, AA825833, R34425, AJ003377, AA485723, AA811296, H22076, T10296, F01547, T15374, H28578, R40139, AA258311, AA169849, R53061, AA400820, H18505, AA417900, R66443, H07888, H08856, AA826266, H49161, AA024588, AA609086, T40888, AA134908, AA805008, AA878910, W00532, AA255802, AA576716, AA411991, AA741334, AA758279, AA896325, AA982953, AA109004, AA030787, AA208502, L26671, AA795994, AA061258, AA137576, AA174980, AA797841, AA684295, AA600584, AA142502, AA726442, AA919576, AA560121, AI007250, AA030519, AA855488, AA718092, AA414300, AA871414, W82197, AA560836, AA050501, AA409021, AA591369, AA795852, AA544179, AA137816, W14055, AA823952, C32788, D36052, C11655, C61888, D68462, C37208, C32936, AA012663, C61404, T00765, C38378, C28434, Z47062, AA900826, C23840, H35908, C91267, AA161734, AA294228, W36335.

SEQ ID NO: 242

20

景等人

AB011182, AC003009, AC002291, M90531, U12891, D87026, U33007, Z81537, Z78420, AL023781, AC000081, U23518, AC000072, AF000571, U49431, L77569, AC002403, U89364, AE000749, X61590, Y00822, M94081, AC000377, AF051426, Z49218, AA010836, N52145, AA011013, AA019431, R85665, AA016056, R85648, AA058678, AA021571, AA177094, AA984795, H88615, AA808210, T27140, C21245, AA014072, AA096922, AA870423, W16400, W10906, AA793805, AA420126, AA644830, C25692, C49392, C26648, C26279, C26632, C26656, C26745, C28591, C13946, D24272, AI030331, C59455, AA957665, D36588.

in terkasjan merske Tipliksming, mermi

SEQ ID NO: 243

AB011182, Z83109, AC002448, Z46935, Z98981, AC004022, AL021026, Z50177, Z35641, X05659, AC003105, AF064861, AL021488, X14735, AF043706, X55026, AC002069, Z15124, Z66520, AC005247, U49102, AC004537, U28941, X15087, X06544, Z81513, X91218, M37083, U66820, AA888926, AA680329, AA857253, H02915, AI015118, N22080, AI039206, AA953973, AA016111, R84685, R76568, R84707, H28472, N75868, R33103, R84949, AA604416, AA058782, T54671, H95551, AA011115, R31662, AA449595, H03822, T54758, AA020805, D62124, AA913581, X85615, R33200, R79646, X85616, AA169479, D79415, H89588, AA257022, AI039705, T29455, AA654177, AA384147, AA479375, AA489078, N57541, AA256375, AA578458, AA160174, AA488831, AA807257, AA804396, AA043964, AA888142, AI049785, AA733156, AA552139, AA904213, AA729569, AA902548, AA767777, AA617680, T87422, AA984457, H45499, AA479280, AA506351, N64576, AA129434,

AA148518, AA506418, AA730503, AA768639, AA952956, AI015843, R62147, AA641864, AA330027, AA398752, AA708611, AA922221, W71635, AA797709, AA733664, C79168, AA675429, AA895131, AA023580, AI010275, AI008085, AA965923, H39492, AA246106, AI029544, AI043846, D64629, D27115, T46146, D33963, D27113, D64994, C23500, D65246, W84915, C84049, AA819647, D73030, C48494, C83952, D71371, D27346, D71047, D40524, AA559819, AA925305.

SEQ ID NO: 244

10

X61693, Z65486, L31959, AE000713, D16512, D11100, L22431, D88268, U21863, AC003019, D86993, L20470, D16494, M33582, D87001, U40188, AC004641, AP000037, D16493, S73849, AA375966, AA251647, AA374591, N28647, N40395, AA191252, AA300607, AA721028, N92231, AA603510, AA602225, H49915, AA338853, AA096090, AA255805, AA155805, AA827994, AA486134, AA256420, N27102, AA031715, N67289, AA463608, AA948180, T74390, AA047711, AA485967, AA935233, W39681, AA369893, AA868164, AA903479, AA177706, AA230649, AA796829, AA230653, AA060909, AA798495, AA276689, AA501147, AA435082, C78879, AA759697, AA509649, AA065451, AA003244, AI019180, AA003106, AA437582, AA791172, AA184719, AA675604, AA030678, AA600661, AI007208, AA536698, AA689780, AA711685, T46035, R29770, AA586201, AI013450, X92798, AA998804, T02730, AA620258, AA739870, AA545862, T43867, T75863.

SEQ ID NO: 245

20

U48399, AC004069, AB013393, AB006705, AF025422, U41549, U41028, X13978, AC003681, AA805342, AA159599, AA443025, AA456296, AA700508, AA236843, AA251536, AA236795, AA236797, AI034417, AA635725, AA620854, AA129814, AA131387, AA129815, AA582531, AA193399, AA923065, AA456693, AA150935, AA479208, H67391, T83215, AA193492, AA873197, AA032273, AA337925, AA453177, H67445, H61147, AA814955, AA479561, AA477401, AA437337, AA742281, H18470, N83277, AA747452, AA935529, H69930, AA923118, T49591, F19112, N63787, H79380, AA068654, C81358, AA407237, AA073741, AA241101, AA423396, AA981401, AA218317, AA423372, AA596315, AA105098, C81155, C80993, AA591743, AA230520, AA107327, AA073945, AA892826, T09875, AA540566, C92107, C90829, AI026180, AA451568, T88619, Z34153, AA042266,

SEQ ID NO: 246

40

U68546, L22000, Z54141, X13141, M55015, Z99109, AC004708, AC004118, X62695, Y14083, U00039, AF013293, U60315, M22090, X90588, AE000421, M64985, L07305, U10413, U28142, D14525, AF023920, U53152, U00066, AB013393, U10412, Z29967, U41109, AF016420, AC004705, AC002502, Z79605, AA876550, AA746642, AA382643, AA628196, AA169801, AA830932, AA716337, AA363131, W30985, AA164973, W05702, R53302, AA075107, H15502, Z45779, F12543, H09230, T74152, W47230, AA284633,

AA046186, AA505776, AA323837, AI025919, AA070092, T07873, AA017596, H53316, H12184, AA371498, Z41946, W24237, W31023, AA867068, AA512039, AA024374, AA871823, AA111131, AA013530, AA655966, AA958548, AI019169, AA718857, AA111360, AA555824, AA218439, AA957790, C06983, AI029962, AA751937, Z35744, C93933, AA597601, C70605, D70104, C53466, AA471450, D69706, D66645, D65421, C13893, R65553, D66020, AA948790, H31601, AA849618, AA660795, AA841362, AA943244, C68724, AA952184, AA547861, AA494584, C72786, AA950723, W06819, AA661015, AA849106, N21913, AA390486, AA851513, D41123, D68520, AA660496.

10

SEQ ID NO: 247

AL021330, U89697, AC004231, U66589, AA458995, AA628196, R64023, U66423, AA948114, N25254, AA708798, AA085369, AA757558, N36089, AA111131, AA790571, AA986871, AA426978, AA198610, AA114592, AA217736, AA867842, W30547, AA799199, AA214920, AA518421, AA198948, D77085, W12125, AA492788, AA497777, AA493043, AA698330, AA819448, N81480, AI008235, AA802857, AA570834, AA850054, AA991079, AA859041.

20

SEQ ID NO: 248

AF027390, M55673, U28686, Z73905, U95982, U67212, AC004525, M19799, U70857, AF067216, Y00023, AC002303, AF022727, AF067611, U13070, AA002081, AA831044, AA113840, AA805579, AA767554, W91985, AA430583, AA740770, AA768675, AA433927, N68306, AA765872, AA004288, AA113127, AA002245, AA903135, AA705271, W91964, AA682981, R62689, AA306222, T72106, AA143762, AA325775, T78803, AA076252, AA192462, AA085427, R36350, AA305641, W37253, H00486, AA307902, AA001622, AA313689, AA054406, AA345397, AA356897, T55643, AA092407, AA305815, AA177031, AA010149, AA010150, AA705484, AA811088, AA105116, AA790191, AA790153, AI006318, W09603, AA939578, D76727, AI046894, AA152861, AA983116, AA547630, AA390060, AA238985, AI021034, AA139951, AA589062, AA619440, AA414094, AA672120, AA869414, AA027542, AA686756, C93720, AA686313, C91205, AA687033, C93846, C54318, D66007, C93938, AA940889, AA660648, T20905, Z37604, D27073, H32361, H74821, AA897979, AA660309, AA926472, AA952542, AA849396, X73736.

SEQ ID NO: 249

- 40 AE000046, AE000036, U35013, AC003080, AP000034, AE000004, AE000035, U09871, U26310, Z70691, U93196, Z75746, Z75893, U49830, AE000054, AF043105, Z36753, AC003043, AL021469, M34482, AF064860, AC003676, AE000002, M81688, AL008971, U10414, AC004644, U97003, L08380, M81689, Z37964, U97190, AF036444, AE000550, Z48007, X56851, AB008264, X82684, AC000076, U80028, Z98753, AL021480, U10402, L09750, U40423, Z66514, U41748, Z54236, Z11115, U00040, AP015477, AP016444, T54236, Z11115, U00040, AP016477, AP016444, AP01644
- L09750, U40423, Z66514, U41748, Z54236, Z11115, U00040, AB015477, AF016414, Z66497, AC002456, M29154, Z68120, AE001117, AA527268, AA780210, AA431793, W74607,

- AA004205, N28891, N25768, AA643184, AA630321, AA854206, AA216596, AI038928, W45570, AA811726, AA001737, AI027706, N30763, AA603729, W90372, AA610141, W92013, AA535623, AA148861, H97575, AA490320, W94384, AA424324, H49322, W68201, AA165561, AA678487, W04711, AA486288, AA114952, N73273, W02793, AA214609,
- 5 N67842, AA864358, W30934, AI034146, AA953621, W68202, W15581, H49323, AA693353, AA648400, H44141, H97860, AA205308, AA766793, AA971954, N20849, AA804853, AA485269, AA433927, AI004353, N62700, AA825778, AA114829, AA007422, H10401, AA552090, W31657, AA579359, R82009, H01442, AA216543, T97120, H69533, AA318373, AA430583, AA779558, AA025477, AA702752, W67753, AA329745, R22948, AA774128,
- 10 T97005, R82061, D78892, R81522, T35994, AA996354, AA775160, H48804, R34243, Z28536, AA025396, H48810, H44062, AA513115, W90371, AA287628, R62712, Z19475, C02732, AA777768, AA628646, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA822900, AA560406, AA079914, AA254405, AA561771, AA097088, AA822893, AA444663, AA623299, AA200448, AA960524, AA396152, AA863792,
- AA560556, AA472424, AA183321, AA790566, D18314, AA116991, AA545942, AA718699, AA162299, AA288151, AA619931, AA718602, AA538093, AA980553, AA170629, W36441, AA688806, AA414642, AA690993, AA855805, AA517348, W71565, AA268163, AA690916, AA690917, AA756480, AA624507, AA270487, AA849531, AA848917, AA957315, AI009528, C06826, C23790, D22377, AA605573, D39911, Z18210, C32716, C89903, AA898115,
- AA943491, AA051845, C93176, C84183, C90994, C92834, AA945230, D42886, AA438451, AA899962, C94217, AA842873, AA900113, AA924397, AA997400, C36068, AA957108, D73182, C62969, R30308, AA890788, AI044720, T02433, C25562, AA942692, AA996923, N96377, W06489, C09371, AA161699, N55612, AA712502, AA202444, C90271, AI037825, H33868, AA550648, W63192, AA925965, AA676066, AI045785, AA990991, C49169,

25 C54804, C54452, AI012441, W63171, AA925071, AA850803.

SEQ ID NO: 250

· KM / A 10 /

- D90716, AE000181, AE000777, AF003626, S38698, W31813, W03446, AA011499, AA045835, H69988, AA336381, AA206741, AA348162, AA337762, AA917730, C17881, AA329851, AA045969, AA330339, AA148860, AA354856, H48612, H48619, AA318031, AA011500, AA361087, AA424428, AA094788, AA527916, AA182437, H22733, T53273, AA085882, AA188322, AA005133, AA320171, AA366689, H92225, AA809519, AA358978,
- H44710, AA155839, W97332, W45747, AA727854, AA896228, AA059823, AA789939, AA140441, AA032863, AA760526, AA726236, AA267387, AA791055, AA6666667, AA086866, AA096662, AI019235, AA799210, AA166173, AA881031, AA726992, W07991, AA691105, AA667205, AA667224, AA122715, AA472537, AA388943, AA894335, X89996, Z81222, X93228, AA951463, AA944617, C93776, AA941885, AA965140, C65935,

40 AA202573, AA583103, AA392380.

SEQ ID NO: 251

45 AC003080, AE000035, AE000046, AE000036, AP000034, AE000004, U35013, U26310, Z70691, Z75746, U93196, U09871, Z75893, AE000002, AE000054, AC003676, Z36753,

AL021469, AC003043, U49830, AF043105, M34482, AF064860, U63312, Y10196, Z48007, D86251, U80028, AL008971, M81689, U41748, AB008264, AL021480, AC000076, AB010068, L09750, AF016414, Z66497, AC002341, AB009525, AB015477, Z84814, Z68120, U97190, U97003, Z54236, U10402, U10414, AC004644, AE001117, Z98753, Z37964, 5 - AC003998, Z11115, AF036444, X82684, X56851, U40423, AE000550, M29154, Z66514, M81688, AA527268, AA431793, AA780210, W74607, AA004205, N28891, N25768, AA630321, AA854206, AA643184, AA216596, AI038928, W45570, AA811726, AA001737, AI027706, N30763, AA535623, W90372, AA603729, W94384, AA610141, W92013. AA148861, H97575, W68201, AA490320, H49322, AA214609, W04711, AA424324, AA486288, AA678487, AA114952, W30934, N73273, W02793, AA165561, AA864358, N67842, AA953621, AI034146, W68202, W15581, AA971954, AA693353, H49323, H44141, AA205308, AA433927, AA648400, H97860, AA825778, N20849, AA766793, AA485269, AI004353, AA804853, N62700, AA114829, AA007422, AA552090, R82009, W31657, H10401, AA579359, AA216543, H01442, AA318373, T97120, AA430583, AA779558. H69533, AA025477, AA702752, AA329745, AA774128, W67753, T97005, R22948, AA996354, R82061, R81522, D78892, T35994, AA775160, H48804, R34243, Z28536. H48810, AA513115, H44062, AA025396, C02732, W90371, Z19475, AA777768, AA628646, AA287628, R62712, _AA175464, AA200267, AA466843, AA611918, AA608178, AA396402. AA079914, AA560406, AA822900, AA254405, AA561771, AA097088, AA822893, AA444663, AA623299, AA200448, AA183321, AA116991, AA790566, AA863792. AA960524, D18314, AA560556, AA472424, AA396152, AA288151, AA690916, AA756480, AA268163, AA718699, AA162299, AA414642, AA624507, AA619931, AA718602, AA980553, AA690917, AA270487, AA764531, AA690993, W36441, AA170629, AA688806, AA690993 AA538093, AA855805, AA545942, W71565, AA849531, AA848917, AA957315, AI009528, AA848917, AA848917, AA957315, AI009528, AA848917, AA957315, AI009528, AA848917, AA848917, AA957315, AI009528, AA848917, AA848917, AA957315, AI009528, AA848917, AA848917, AA957315, AI009528, AA848917, AA848917 C06826, C32/716, AA605573, D39911, D22377, C23790, C84183, C92834, AA899962, C32/716, AA605573, C32/716, AA60573, AA60573 C93176, C90994, AA051845, AA943491, T38519, C89903, AA438451, AA945230, D73182, D73182 AI012441, C25562, AA842873, AA942692, AI044720, C54804, C54452, C36068, AI045785, 221112 H33868, N55612, W06489, AA997400, C62969, AA550648, AA676066, AA712502, AA898115, AA924397, AA957108, AA925965, C94217, W63171, AA161699, W63192,

SEQ ID NO: 252

30

AE000004, AE000035, AP000034, AE000046, AC003080, U35013, AE000036, U26310, Z70691, U09871, Z75893, U93196, Z75746, AE000054, AC003676, AL021469, Z36753, AL009029, AF064860, AF043105, U49830, M34482, AE000002, AE001117, AB010068, Z66497, L09750, Z37964, AB008264, Z11115, U10414, Z48007, X56851, Z66514, U80028, Z54236, AC002456, AF016414, Z98753, AB015477, U10402, AC000076, X82684, AC004644, U97190, AC003998, Z84814, M81688, M81689, AL021480, AE000550, AL008971, U97003, AC002341, U40423, D86251, M97006, AF036444, U41748, Z68120, M29154, AA527268, AA780210, AA431793, AA004205, W74607, N25768, AA630321, AA854206, AA643184, AA216596, AI038928, W45570, AA811726, AA001737, AI027706, N30763, N28891, W90372, AA603729, AA610141, W92013, AA148861, AA535623, H97575, AA490320, W94384, W68201, W04711, AA424324, H49322, AA486288, AA678487, N73273, W02793

AA850803, AA900113, AA996923, AA925071, AA202444, N96377, T02433, AA990991.

W94384, W68201, W04711, AA424324, H49322, AA486288, AA678487, N73273, W02793, AA165561, AA864358, N67842, AA214609, AA953621, W30934, AI034146, W68202,

MARCHER CONTRACTOR

W15581, AA693353, H49323, AA205308, AA648400, H97860, H44141, AA433927, N20849, AA766793, AA485269, AI004353, AA804853, AA114952, AA971954, AA825778, N62700, AA114829, AA007422, AA552090, H10401, AA579359, R82009, H01442, H69533, AA702752, AA318373, AA430583, AA779558, W67753, AA329745, T97005, R22948, 5 - AA774128, W31657, R82061, R81522, AA996354, AA775160, AA216543, AA025477, H48804, R34243, Z28536, T97120, H48810, AA513115, H44062, AA025396, AA777768, AA287628, D78892, C02732, T35994, AA628646, W90371, R62712, R58722, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406, AA561771, AA623299, AA822900, AA200448, AA097088, AA444663, AA254405, D18314, AA183321, AA116991, AA790566, AA560556, AA960524, W71494, AA396152, AA863792, AA472424, AA690917, AA170629, AA688806, AA755397, AA690993, AA717461, AA756480, W71565, AA855805, AA270487, AA414642, AA681482, AA771596, AA718602, AA718699, AA545942, AA624507, AA619931, AA672971, AA288151, AA538093, AA980553, AA690916, AA268163, W10629, AA537842, AA162299, AA571015, W36441, AA849531, AA848917, AA957315, AI009528, C32716, C23790, D22377, AA605573, D39911, C84183, AA899962, C93176, AA051845, C89903, AA945230, C92834, AA676066, C90994, AA943491, AA438451, AA597644, T02433, AA202444, W06489, AA997400, AA842873, AI012441, D73182, AI045785, AI044720, AA712502, AA550648, C25562, AA942692, AA898115, AA990991, C06826, W63192, AA850803, AA900113, AA925965, W63171, C94217, AA957108, AA404797, AA924397, C36068, C54452, N55612, AA161699, C54804, AA996923, N96377.

** SEQ ID NO: 2537-1-1

25 3 4 C 25 1

The Art of the Albertain AE000004, AE000046, U35013, AP000034, AC003080, AE000035, AE000036, Z70691, U09871, U93196, Z75746, Z75893, Z36753, AF064860, AC002287, AC003043, M34482, AC003676, AE000002, AE000054, AF043105, Y10196, AL021469, AL009029, U41748, AL021480, Z11115, AE001117, Z48007, U40423, Z37964, AF036444, Z66497, X82684,

- AF016414, AE000550, M81688, M81689, M29154, AC002341, U80843, U97003, U26310, U10402, AC004644, AL008971, Z54236, U97190, L09750, AB015477, Z68120, Z66514, AC000076, AB008264, Z98753, X56851, U10414, U80028, AC003998, AA527268, AA780210, AA431793, W74607, AA004205, AA630321, N25768, AA643184, AA854206, AA216596, AI038928, W45570, N28891, AA811726, AA001737, AI027706, N30763,
- W90372, AA603729, AA535623, AA610141, W92013, AA148861, H97575, W94384, AA490320, W68201, H49322, AA424324, AA214609, AA486288, AA678487, W04711, W02793, N73273, AA165561, AA864358, N67842, W30934, AI034146, W15581, AA953621, W68202, AA114952, AA693353, AA971954, AA205308, H49323, AA648400, H44141, H97860, AA433927, N20849, AA485269, AA766793, AI004353, AA804853, AA825778,
- N62700, AA114829, AA007422, AA552090, AA579359, R82009, H10401, H01442, W31657, AA216543, H69533, AA702752, AA318373, AA025477, AA329745, AA430583, AA779558, R22948, T97120, W67753, T97005, AA774128, R82061, R81522, AA775160, AA996354, H48804, Z28536, R34243, D78892, T35994, AA025396, H48810, AA513115, H44062, AA287628, C02732, AA777768, AA628646, W90371, Z19475, R58722, AA175464,
- AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406, AA822900, AA254405, AA097088, AA561771, AA822893, AA200448, AA472424, D18314,

AA116991, AA560556, AA790566, AA396152, AA863792, AA960524, AA183321, AA756480, AA855805, AA170629, AA270487, AA688806, W71565, AA268163, AA414642, AA162299, AA288151, AA718602, AA718699, AA545942, AA619931, AA624507, AA980553, AA690917, AA690993, AA690916, AA849531, AA848917, AA957315, AI009528, C23790, C32716, AA605573, C06826, C93176, C89903, C90994, AA945230, AA943491, AA899962, C92834, C84183, AA051845, C54452, N55612, AI012441, AI044720, AA997400, AA925965, D73182, T02433, AA996923, AA957108, AA990991, AA161699, C36068, W63192, AA712502, AA898115, AA942692, AA202444, D22377, D39911, H33868, W06489, C94217, AA850803, C25562, AI045785, W63171, AA842873, AA550648, AA924397.

10

SEQ ID NO: 254

AP000034, U35013, AE000036, AE000035, AC003080, AE000004, AE000046, U26310, Z75893, Z75746, U93196, AC003676, U49830, AC003043, M34482, AF043105, AE000054. 15 AE000002, AF064860, AC002287, AL021469, Z36753, AL009029, Y10196, U10402, Z48007, AC002341, AC000076, AL008971, M81689, Z66497, D86251, AE001117, L09750, AC002456, AC004135, AC004703, Z11115, AF036444, Z70289, U95090, U80843, AC002066, Z68120, AC003998, U40423, Z98753, U41748, U80028, Z66514, AL021480, AB010068, AC004644. U10414, U97190, U97003, Z37964, X56851, Z54236, Z84814, X82684, M81688, AF016414, M29154, AE000550, AB008264, AA004205, W74607, AA780210, AA431793, AA630321, N25768, AA643184, AI038928, AA854206, AA216596, W45570, AA811726, AA527268, AI027706, AA001737, N30763, AA603729, W90372, AA610141, AA148861, W92013, AA610141, AA148861, AA610141, AA148861, W92013, AA610141, AA148861, W92013, AA610141, AA148861, W92013, AA610141, AA148861, AA610141, AA148861, W92013, AA610141, AA148861, W92013, AA610141, AA148861, W92013, AA610141, AA148861, AA610141, AA148861, AA610141, AA600141, AA600141, AA600141, AA600141, AA600141, AA600141, AA600141, AA600141, AA600141 AA490320, H97575, W04711, AA424324, AA535623, AA486288, AA678487, N73273, 25 W02793, AA165561, AA864358, N67842, AA953621, AI034146, W68202, W15581, W94384, A 205308, AA648400, N20849, H49323, N28891, W68201, AA205308, AA648400, N20849, H49322; AA766793, A AA485269, AI004353, H97860, AA804853, W30934, AA433927, N62700, AA114829, AA825778, AA214609, AA007422, AA552090, AA579359, H10401, H01442, H44141, H69533, AA702752, W67753, AA971954, AA779558, R82009, AA430583, T97005, R22948, AA774128, R82061, AA318373, AA114952, R81522, AA996354, AA775160, AA329745, H48804, R34243, Z28536, H48810, AA513115, H44062, AA025396, AA777768, AA287628. AA628646, W31657, C02732, AA216543, AA025477, T97120, D78892, T35994, R58722, R62712, W81313, AA175464, AA200267, AA466843, AA611918, AA608178, AA079914, AA396402, AA560406, AA561771, AA822900, AA623299, AA200448, AA444663, AA560556, AA183321, D18314, AA396152, AA960524, AA790566, AA472424, AA116991, AA863792, AA170629, AA688806, AA718602, AA690916, AA756480, AA268163, AA690993, W36441, AA414642, AA624507, AA288151, AA162299, AA538093, AA690917, W71565, AA855805, AA545942, AA718699, AA980553, AA270487, AA619931, AA117622, AA208995, AA474849, C80271, AA712010, AA759545, AA510718, AA798564, AA168386, AA759392, AA274576, AA863529, AA939932, AA183584, AA543538, AA048938, AA162089, AA959168, AA546863, AA177481, AA244613, AA245968, AA840456, AA880395, W71494, AA036386, AA155555, AA198582, AA416281, AA547224, AA277326, AA958885, AA106584, AA286405, AA849531, AA848917, AA957315, AI009528, D22377, C23790, D39911, AA605573, C32716, AA438451, AA925071, C89903, AA899962, C90994,

AA945230, C93176, C92834, AA051845, C84183, AA943491, T02433, C36068, C54452, C54804, AA202444, AA842873, AA996923, N55612, AA550648, AA850803, N96377,

155

AA957108, AA676066, AA712502, AA924397, C94217, W63171, AA942692, W63192, AA925965, AI044720, AA997400, AI012441, AA990991, AI045785, D73182, C25562, W06489, AA161699.

SEQ ID NO: 255

5

AC004381, Z34294, AE001023, AG000110, AF043700, AC002050, Z19595, Y15685, Z98557, D21126, Z70757, AA115418, AA326624, N21005, H91682, AA836210, AA722830,

- AA024930, AA507115, AA808743, AA847250, R71586, AA992661, AA296828, AA526931, N95179, N57342, AA143283, W40406, AA587485, H65350, R79180, AA946707, AA298828, AA503924, AA486261, AA437238, AA442303, AA765280, AA177015, W56676, AI033929, AA235699, AA437013, AA569324, AA024825, AA772627, AA693744, AA635984, AA442843, AA461611, AA297347, AA229574, AA083801, N99131, N32134, H99612,
- AA297186, AI033160, AI027413, AA876042, AA642111, AA622287, AA461439, AA452671, N29407, AA404217, AA251853, AA302967, AA687956, H96097, H04783, AA991975, AA745968, W37497, AA918131, AA946883, W40407, AA508853, AA302689, AA298381, AA524571, W69596, AI022024, AA861434, AA831222, AA740528, AA724107, AA459952, AA927760, AA298536, AA298240, AA292566, AA286750, AA143393, AA130392, W69409,
- W24131, N58333, N57307, H37822, AA921691, AA915895, AA545320, AA734466, 20 AA636550, AA921220, AA415216, AA451042, AA388279, AA174380, Z46297, R65246, C72021, C72540, D76297, AA550414, C47036, C42147, AA859311, C41752, C43660, D75878, T37831, C49142.

SEO ID NO: 256

and the transfer of the same o

25

AC004381, U29082, AC002078, M94080, M33582, U39655, AC005161, U50193, X16549, X16553, Y12025, U53344, U00036, AA412384, AA837145, AA602982, AA115419,

343 38 34 4

- AA478697, H67227, AA587840, AA133086, R76363, H81547, H83962, AA665443, AA251488, AA662495, AA301274, AA976922, AA132987, AA722928, AA478563, AA579347, AA501519, AA169423, R76688, N62994, AA629042, AA013476, AA018206, AA252018, N79902, AA644296, N23634, R41716, AA125908, F02250, N79270, N94499, AA236462, AA662818, N64551, AA436025, AA962585, AA127093, R49041, R43118,
- AA115152, N62138, F02743, AA125794, AA639166, AA281970, AA573768, AA127071, Z40901, F02957, AA722997, AA347035, AA365473, AA436317, R77437, AA574240, AA729358, AA436192, H01511, W73300, AA577027, W96984, AA530599, C22934, F14212, AA568080, C35274, AA751821, AA751972, C92915, D27726, AA926098, AA924800, D64416, AA923860, AA892301, AA549967, C52515, D32818, AA945020, AA901415, 40 C55124.

SEQ ID NO: 257

AC004381, AE001023, AG000110, AC002050, AF043700, D21126, Z98557, Z19595, Z70757, M35862, AF001549, Y15685, AA115418, AA326624, AA024930, AA836210, N21005, H91682, AA722830, AA524571, W56676, AA442843, AI022024, AA724107, AA298381, AA302967, AA915895, AA847250, AA918131, AA927760, AA459952, AA808743, AA772627, AA745968, AA921691, AA404603, AA302689, AA298828, AI027413, W40407,

W24131, H27066, N32134, AA693744, AA768383, AA861434, AI016392, AA622287, AA586689, AA486260, W37391, AA442303, AA298536, AA298240, AA297222, AA083801, AA074204, AA024825, R79180, H07945, R71586, AA404217, AA296828, AA143393, W37497, AI033929, AA284849, AA946883, AA757574, AA676676, AA662435, AA642111, AA635984, AA569324, AA460041, AA894509, AA461439, AA461611, AA177015, AA130392, N99131, N57307, AI033160, AA235699, AA991975, AA992661, AA687956, AA297394, AA297347, AA292566, AA526931, N57342, H99612, H06143, AA946707. AA876042, AA831222, AA651857, AA630335, AA587485, AA578220, AA508853. AA507115, AA297186, AA284802, N29407, AA545320, AA734466, AA636550, AA921220. AA174380, AA388279, W64017, Z46297, R65246, C72021, C72540, D75878, C42147. C43660, T38141, C49142, AA550414, D76297, T37831, AA859311, C47036, C41752.

SEQ ID NO: 258

15

AC004381, U29082, AC002078, Z72625, M33582, Z86061, U39655, Z72626, X16553, U53344, Z92815, M94080, AL010222, D10040, U50193, Z72828, X16549, Z72829. AA837145, AA602982, AA115419, AA412384, AA587840, H81547, R76363, AA665443. AA251488, AA662495, H67227, AA478697, AA301274, AA132987, AA133086, AA722928, AA478563, AA579347, AA501519, H83962, R76688, AA629042, AA976922, AA252018, N79902, AA169423, N62994, AA644296, AA013476, T26917, AA018206, T26928, N23634, AA329023, R41716, R49041, R43118, F02743, W73300, AA457471, AA334995, N90126, T84778, AA645726, W36240, AA061413, W96984, AA530599, AA802677, AA391861, F14212, C22934, AA892301, Z26665, H31953, D32818, AA926098, AA924800, C52515. 25 AA751821, D64416, AA549967, AA539408, C92915, AA923860, C51698, D27726, AA923860, C51698, AA923860, AA925860, AA92586 AA945020, AA901415, C55124, T12735, C35274, AA751972, AA568080, AI045499.

1、1990年,1994年的1996年,自1966的16年中1日日

SEOID NO: 259

"你的意思我看得"。

30

AC004381, AE001023, D21126, Y15685, L10388, AC002050, Z70757, Z98557, Z19595, AF043700, AA115418, AA326624, AA722830, AA836210, AA024930, N21005, H91682, AA024825, AA297394, AA861434, N29407, AA635984, R79180, W40407, AA442843, AA284849, AA586689, AA297222, AA284802, AA292566, N57342, AA662435, AA404603, AA130392, AA486261, AA569324, AA503924, N57307, AI016392, AA630335, AA079126. AA298240, AA991975, N95179, AA992661, AA687956, AA587485, AA578220, AA302967, H99612, AA946707, AA876042, AA831222, AA526931, AA437238, AA437013, W37391, AA915895, AA640985, AA508853, AA143283, AA297186, AA251853, AA918131. AA297347, N99131, N58333, AI022024, AA921691, AA765280, AA740528, AA651857. AA286750, AA298381, AA507115, W69596, AA298536, AA724107, AA618605, AA229674. AA229574, W69409, W40406, H96097, H65350, H37822, H04783, AA745968, AA847250. AA302689, AA298828, AA927760, AA772627, AA524571, AA486260, AA235699, AA545320, AA734466, AA636550, AA921220, AA388279, AA174380, Z46297, R65246. C72540, C72021, C41752, C49142, AA550414, C47036, C43660, Z35625, T37831, C42147. D75878, D76297, AA859311, F19815, C62071, C63980, AA539230, AA875056, D33778, C70418, AA942029, C10094, W68996, AA899150, AA391082, AA859705, AA697636, AA540373, AA695973, D34863, AA699026, D48829, H39253, AA246420.

AC004381, U29082, AC002078, U39655, M33582, M94080, U53344, AC002451, X16549, D10040, X16553, Y12025, U50193, AA837145, AA412384, AA602982, AA478697, AA115419, AA587840, R76363, H81547, H67227, H83962, AA665443, AA133086, AA251488, AA976922, AA662495, AA301274, AA132987, AA169423, N62994, AA722928, AA478563, AA013476, AA579347, AA501519, R76688, AA629042, AA018206, AA252018, N79902, H70300, AA644296, N23634, AA127071, F02250, AA716541, R41716, AA125908, AA662818, N79270, N62138, N64551, AA236462, AA436025, AA962585, R43118, AA115152, R49041, F02743, AA125794, AA281970, AA639166, AA127093, AA573768, N94499, AA877109, AA449432, AA608686, Z40901, W52069, AA688218, AA398554, F02957, AA347035, W73300, AA061413, W96984, AA530599, F14212, C22934, AA926098, C92915, D27726, AA924800, AA923860, C55124, AA892301, AA549967, AA751821, AA945020, D32818, AA901415, D64416, C52515, C35274, AA751972, AA568080.

15

SEQ ID NO: 261

AC004381, Z93385, Z48717, AL022198, AE001023, Y15685, AC002050, AF043700, Z84815, D21126, AA115418, AA326624, AA836210, AA024930, AA722830, N21005, H91682, 20 AA918131, AA503924, AA921691, AA642111, AA297222, AA894509, AA915895, AA251853, W69409, AA286750, AA740528, W56676, AA676676, AA143283, AA459952, AI027413, AA486260, AA284849, AI033160, AI016392, AA861434, AA847250, AA768383, AA724107, AA765280, AA460041, AA507115, AA404217, AA177015, AA130392, AA083801, AA640985, AA946883, W40406, AA569324, AA296828, AA586689, N32134, AI033929, N95179, AA991975, AA757574, AA461439, AA897649, AA143393, N57342, N57307, AA526931, AA662435, AA635984, AA630335, AA461611, W37391, N99131, H99612, AA578220, AA622287, AA831222, AA992661, AA693744, AA437013, AA297394, AA297347, AA292566, AA284802, AA946707, AA876042, N29407, AA687956, AA587485, AA297186, N58333, AA508853, AA486261, AA437238, W37497, H37822, AI022024, AA545320, AA734466, AA636550, AA921220, AA174380, AA388279, R65246, C72021, C72540, C41752, C42147, D75878, AA550414, C47036, C43660, T37831, C49142, D76297, AA859311, AA697636, D48829, T44877, AA859705, AA246420, C10094, AA942029,

AA699026, D34863, C62071, C63980, AA875056, AA540373, AA539230, AA957800,

AA899150, AA695973, C70418, W68996, AA391082.

SEQ ID NO: 262

- AC004381, U29082, M94080, U39655, M33582, X16553, U53344, Z72828, X16549, AC004301, Z72829, AL010222, U50193, Y12025, D10040, AA837145, AA602982, AA115419, AA412384, AA587840, R76363, H81547, AA665443, AA251488, AA662495, H67227, AA301274, AA478697, AA132987, AA722928, AA478563, AA133086, AA579347, AA501519, R76688, H83962, AA629042, AA252018, AA976922, N79902, AA169423,
- N62994, AA013476, AA018206, AA644296, N23634, R49041, F02743, R43118, R41716, W73300, AA334995, N90126, AA061413, AA530599, W96984, AA163443, AA612360, AA919946, AA967393, C81197, AA163825, W33363, AA940335, AA522025, AA238429, AA915211, AA518646, AA930778, AA275870, AA177383, AA119983, AA058115, W12739, AA168575, F14212, C22934, C55124, C52515, C92915, C35274, C51698, AA549967, D32818,

AA945020, AA901415, AA892301, AA568080, D64416, AA923860, D27726, AA926098, H31953, AA924800

- SEQ ID NO: 263
 Z13009, L08599, Z18923, X52279, X12790, L34793, L34792, S72491, L34791, S72397, X06115, X06339, L34794, X60967, X60968, X06340, X60969, X60966, X58518, X79076, M81894, M83822, D55723, X63629, AF033826, R18632, AA350567, AA393866, AA968708, AA627539, AA789905, W34925, AA530118, D21428, AA591039, AA619058, AA104868, AA198453, AA413826, AA510308, AA959889, AA051340, AA066361, AA561627, AA497505, C94993, AA042504, C06552, AA696737, AA497288, H36182, AA695064, C67449, H37133, D27932, D32712, C52050, C71282, D39592, AA816980, C55002, AA391562.
- 15 SEQ ID NO:264 U27342, Z68303, AC004781, S73774, AL022101, Y07798, X90875, Y07794, D88263, M64432, U51280, AC001228, Y12837, U65015, AA350564, AA350565, AA468654. AA765067, R41600, AA350566, AA853438, R39007, T03595, AA412215, AA470028, AA412297, AA470131, AA469999, AA903683, AA093062, AA351759, R71491, AA258193. AA258192, AA720846, AA937165, T10309, R36757, AI003321, T03830, AA192826, R19610, W28150, AA324720, AA062006, AA387949, AA839038, AI020928, AA795918, AA415042. AA116532, W98366, AA608357, AA386458, AA691023, AI047462, AA792773, AA690308, AA122697, AA172715, W42322, AA608314, AA217326, AA549457, AA544778, AA734976. AA241231, AA117090, AA000423, AA823809, AA467031, AA770931, AA645614, AA681737, AA386418, AA790521, AA592036, AA673138, AA574842, AA254046. AA111508, AA097379, AA770877, AA880646, C76432, AA529411, AA517533, AA111435, AA008950, AA647505, AA655324, AA797631, AA222588, AA036250, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595. AA412215, AA470028, AA412297, AA470131, AA469999, AA903683, AA093062, AA351759, R71491, AA258193, AA258192, AA720846, AA937165, T10309, R36757, AI003321, T03830, AA192826, R19610, W28150, AA324720.
- SEQ ID NO:265
 U27342, AC004781, S73774, Z68303, AL022101, Z84480, AC000097, M64432, D88263,
 U51280, AC001228, AA350564, AA350565, AA468654, AA765067, R41600, AA350566,
 AA853438, R39007, T03595, AA093062, AA903683, AA775269, AA290925, AA937165,
 R34308, AA477363, AA989352, AA290585, W28150, AA258193, AA988332, R71491,
 AA720846, H92820, AA324720, AA488541, AA258192, AA488406, AI003321, T10309,
 AA062006, AA387949, AA867162, AA881310, AA116532, AA509748, W98366, AA770877,
 AA529411, AA097379, AI047462, AA608314, AA790521, AA122697, AA000423, AA592036,
 AA517533, AA797631, W68921, AI045772, C82795, F15109, U90031, AA141112, C41516,
 AA818364, AA140834, C83651, AA892748, D39545, C47745, AI011095.

45

U27342, AC004781, Z68303, S73774, D88263, Y07794, AL022101, X90875, Y07798, Y12837, M64432, AC003002, AC001228, U51280, AA350564, AA350565, AA468654, AA765067, S141600, AA350566, AA853438, R39007, T03595, AA469999, AA470028, AA470131, AA412215, AA412297, AA903683, AA093062, AA324720, T03830, W28150, AA258193, AA258192, AA720846, AA937165, T10309, AI003321, R71491, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595, AA469999, AA470028, AA470131, AA412215, AA412297, AA903683, AA093062, AA324720, T03830, W28150, AA258193, AA258192, AA720846, AA937165, T10309, AI003321, R71491, T76120, AI045772, C82795, D39049, AA859351, AA997761, AA818364, C07408, D39545, U90031, AA956118, AI011095, AA141112, AA140834, AA875559, AA892865, C07407, AI009091, AA892748, C83967, F15109, D39020, H75267, C83651.

159

15

SEQ ID NO: 267

J00370, V00727, V01184, AC000073, Z78022, D50522, X82202, X99699, D50521, X59856, AF001905, T80545, AA911966, T66962, AI040139, AA778816, AI022235, H71003, AA477579, W95135, R32943, AA203704, R33921, R33906, R31511, AA387949, AA002910, AA163393, AA016332, AA560074, AA871746, AA107526, AA856332, W66852, AA759484, AA733777, AA241027, AA198681, W17533, AA674342, AA059902, AA086951, AA123955, AA143959, AA657028, AA109633, AA254925, AA272846, AA693048, AA867023, AA764115, AA067213, AA982959, AA840176, AA220253, W36387, AA735681, AA433213, AA859989, D25097, AA440514, D24327, AA202772, AI029778, AA803282.

SEQ ID NO: 268

- S73774, Z68303, U27342, AC004781, AL022101, Y07798, Y07794, D88263, Z81588, X90875, Z62640, Z84480, AC001228, U51280, Y12837, M64432, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595, AA469999, AA470028, AA412297, AA412215, AA470131, F03038, AA093062, AA903683, AA258193, AA720846, AA258192, AA937165, T03830, AI003321, T10309, AA324720, AA989352, R71491, W28150, AA062006, AA387949, AA415042, AA839038, AA795918, AI020928, AA881310, AA867162, W98366, AA116532, AA509748, AA645614, AA254046, AA008950, C76432, AA797631, AA880646, AA426992, AA655324, AA117090, AA690308, AA517533, AA217326, AA636421, AA467031, AA529411, AA612323, AA110509, AA549457, W42322, AA608357, AA792773, AA770877, AA833314, AA000423, AA111508, AA386418, AA647505, AA097379, AA386458, AA222588, AA111435, AA109906, AA036250, AA681365, AA122697, AA241231, AI047462, AA734976, AA500187, AA592036, AA172715, AA790521, AA763315, AA673138, AA691023, AA608314, AA574842, AA727407, AA544778, AA177596, AA770931, AA931008, AA823809, AA681737, C68298, H35145, D71072, AA684898, AA685924, Z17919, AI045772, AA687072, AA859351, AA818364, AA140834,
- D39545, U90031, AA997761, D39049, AA141112, AB009090, C83967, C07407, C07408, F15109, AA892748, AI011095, C83651, C82795, D39020, AA875559.

Z13009, Z18923, L08599, X52279, X12790, L34793, L34794, X06115, X06339, S72397, L34791, L34795, X60967, X60965, X60968, S72491, L34792, X60966, X06340, X58518, X79076, M81894, M83822, AC005142, D55723, M15343, Z92540, X63629, AF033826, M26125, D90913, AA393866, AA219129, AA968708, AA627539, AA157695, AA789905, W34925, AA530118, D21428, C79764, AA591039, C79768, C79219, AA066361, AA104868, AA497505, AA561627, AA959889, AA413826, AA530017, AA681704, AA718524, AA510308, AA686498, AA042504, AA686540, C49571, AA685323, AA497288, AA696737, AA695064, H35193, AA586199, AI044495, H37133, AI026234, AA391562, AA816980, D47686.

160

15 SEQ ID NO: 270

AC004781, U27342, S73774, Z68303, AL022101, D88263, Z84480, U51280, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595, AA093062, AA903683, AA720846, AA412215, AA258192, AA470131, AI003321, AA412297, AA470028, AA469999, AA324720, AA989352, T10309, R71491, W28150, AA258193, AA937165, AA387949, AA867162, AA881310, AA062006, W98366, AA116532, AA509748, AA517533, AI047462, AA000423, AA823809, AA690308, AA691023, AA217326, AA797631, AA241231, AA529411, AA655324, AA467031, AA222588, AA608314, AA681737, AA770877, AI037418, AA152914, AA647505, AA122697, AA172715, AA592036, AA549457, AA790521, AA104839, AA097379, T76120, AI045772, AA697531, AA859351, AA141112, C07408, AA875559, AA892748, C83967, AA140834, AA818364, AI009091, AA956118, C83651, C82795, C07407, F15109, H75267, AA997761, AA892865, U90031, AI011095, D39545.

SEQ ID NO: 271

30

, Z68303, AC004781, S73774, U27342, AC004548, D88263, AL022101, Y07798, Y07794, Z84480, AB002366, U51280, D87957, M64432, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595, AA093062, AA412215, AA412297, AA470131, AA313215, AA470028, AA903683, AA469999, R71491, W28150, AA258192, AA258193, AA720846, AA937165, R36757, AA158308, AI003321, T10309, R19610, AA989352, AA351759, AA324720, AA062006, AA387949, AA881310, AA867162, AA142668, AA239635, AA277006, AA146176, AA183716, AA982676, C76076, AA451083, AA088951, AA920455, AA655713, AA718480, AA562390, AA575055, AA839028, AA116532, AA967869, W98366, AA509748, AA274183, Z17919, AI011775, AA685924, AI045772, AI007874, AA687072, AA899688, AI012563, C06955, AA684898, H35145, AA892865, D39049, AA859351, D39020, AA875559, AA892748, F15109, AA817479, C82795, AA494872, D39545, C83651, AI011095, AA141112, AI009091, AA997761, AA651158, U90031, AA140834, C83967, AA801403, AA818364, AA956118, AA801402.

X82202, X02796, T80545, AA350567, R18632, W95135, AA232983, AI022235, AA233369, AA778816, AA856332, AA107526, AA163393, AA560074, AA871746, AA016332, AA015494, W66852, AA163094, AA919948, AA733777, C26223.

161

SEQ ID NO: 273

- Z68303, AC004781, AL022101, Y07794, AC004548, D88263, Y07798, Z84480, U67543, M64432, AF038605, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595, AA903683, AA258192, AA720846, T08257, W28870, R36757, AI003321, AA210893, AA324720, R19610, R71491, AA989352, T31251, AA258193, AA351759, T10309, AA937165, W28150, AA867162, AA881310, AA509748, AA023919, AA415519, AA467031, AA647505, AA691023, AA549457, AA241231, AI047462, AA797631, AA517533, AA172715, AA608314, AA000423, AA217326, AA690308, AA790521
- AA517533, AA172715, AA608314, AA000423, AA217326, AA690308, AA790521, AA059975, AA770877, AA681737, AA222588, AA823809, AA796249, AA655324, AA529411, AA097379, AA892748, AA997761, D39049, D39020, AA859351, AA494872, AA651158, F15109, D39545, U90031, AA140834, AA875559, AA141112, C83967,
- 20 AA818364, AI012097, C83651, C82795.

SEQ ID NO: 274

Z48163, U62325, U84008, U84010, X82202, X02796, U84009, T80545, AA350567, R18632, AA299431, W29109, H23302, F05409, AA456921, AA314378, AA300128, AA300270, AA054590, AA317632, AA087734, AA560074, AA856332, AA163393, AA016332, AA107526, AA871746, AA015494, W66852, AA163094, AA733777.

· 2016年1月1日 - 1886年1月1日 - 1886日

SEQ ID NO: 275

30

U27342, S73774, AC004781, Z68303, AC004548, Y07798, D88263, AL022101, Y07794, U51280, M64432, Z84480, AA350564, AA350565, AA468654, AA765067, R41600,

- AA350566, AA853438, R39007, T03595, AA412297, AA469999, AA470028, AA412215, AA470131, AA093062, AA903683, R19610, R71491, AA258192, AA720846, AA937165, T10309, AA158308, AI003321, R36757, AA258193, AA324720, AA351759, W28150, AA989352, AA062006, AA387949, AA881310, AA867162, W98366, AA718480, AA655713, AA562390, AA509748, AA116532, AA967869, AA239635, AA146176, AA575055,
- 40 AA982676, AA142668, AA920455, C76076, AA274183, AA451083, AA088951, AA839028, AA440423, AA697347, AA567580, AA899688, C06955, AI045772, AA875736, AA201878, AI012563, AI007874, AI011775, AA892865, AA892748, AA801402, C83651, AA966766, AA966377, AA801403, AA956118, T01056, AA997761, C68298, AI011095, AA140834, AA859351, C82795, U90031, AA818364, D39049, AA494872, F15109, AA141112,
- 45 AA651158, AI009091, D71072, AA875559, C83967, D39545, D39020.

Z18923, L08599, Z13009, L34792, S72491, X52279, S72397, L34791, X06115, X60969, X06339, U62325, D10011, M81190, Z11581, U08258, M83822, U84010, U84008, AF006482, 5__U84009, AA350567, R18632, T80545, T71965, AA393866, AA036671, AA456921, ____ AA087734, AA116990, AA163393, AA856332, AA107526, AA871746, AA560074, AA016332, AA120757, AA015494, AA163094, AA733777, AA143959, C78091, AA123955, AA267377, AA529729, AA198453, AA217509, AA042504, AA497288, C71282, AA494745, AA801146, C64820, C62760, C65202, AA735920, H37133, C94993, C67449.

162

10

SEQ ID NO: 277

Z68303, AC004781, AC004548, AL022101, D88263, Y07798, Y07794, U95626, M64432, Z84480, AA350564, AA350565, AA468654, AA765067, R41600, AA350566, AA853438, R39007, T03595, AA469999, AA903683, AA093062, AA470131, AA412297, AA412215, AA470028, AI003321, R19610, AA989352, AA324720, R71491, C01169, AA351759, W28150, AA346183, R80825, AA258193, R70566, AA258192, AA210893, AA937165, AA720846, N75173, T10309, R36757, AA158308, H83037, T31251, R24022, T08257, N91738, N28313, W28870, AA062006, AA387949, AA881310, AA867162, AA920455, AA967869, AA274183, AA655713, AA562390, AA982676, C76076, AA142668, AA239635, AA088951, AA839028, AA575055, AA718480, AA146176, AA451083, AA509748, AI007874, AI011775, AA684898, Z17919, AA685924, C06955, AA687072, AA899688, H35145, AI045772, AI012563, R86425, C83651, C82795, AA531814, U90031, D39049, D39020, C83967, F15109, AA997761, AA892748, AA875559, AA859351, AI011095, AA651158, AA818364, AA956118, AA801403, AA140834, D39545, AA892865, AI012097, AA925264, AI009091, AA801402, AA494872, AA141112.

30 SEQ ID NO: 278

U75272, J04443, X59754, M23077, M18667, X04644, M18660, M23070, M18665, M23075, M23073, M18663, M23071, M18661, M88652, M23072, M18662, M23069, M18659, M23076, M18666, M18664, M23074, M25987, M25988, M25993, M25989, M20920, J04601, M26027, J00281, M59237, M73750, M25985, X59753, X59752, M59235, U14406, M19698, AF020510, AF020512, X53037, X59755, M26031, M23165, J00285, D00215, D38104, D45187, M88653, M20788, AF036953, L08418, Y10928, AF036319, M25986, J05036, M84418, J00621, U90321, M57260, X97399, M25990, M84422, S49650, M11233, X05344, M63135, L02636, M84742, M84424, U19717, X69465, U94791, L34361, Y11668, U94795, M36482, L44118, U41166, L44119, X69193, Z36157, Z36158, U39199, U71217, AF020513, X76053, L34360, U30251, AF020509, AF020511, U41165, AA906670, AA534285, AA334924, AA335157, T28355, AA335226, AA335213, AA335152, AA335225, AA33513, AA335108, AA335145, AA335201, AA335110, AA335143, AA335161, AA335113, AA335108, AA335145, AA335201, AA335110, AA335143, AA334925, AA307644, H58586, AA679226, AA335896, AA410697, AA057554, AA603295, AA433879, H78707, H14144, AA074710, F15763, AA282121, AA133501, R87854, AA120315, W13531, AA172581, AA562772, AA028632,

AI035456, AA674642, AA880703, AA739244, AA823912, AA118517, AA817360, AA539362, AA246980, AA441102, AA950510, AA803939, AA949225, D68834, D70510, M88822, C11732, D70490, M80169, D70773, Z14725, D69774, C11719, D70266, D69602, AA520727, AA531934, D65766, AA858922, D69484, AA519302, D40781, C69785, AA848792, D69455, AA892100, D69495, D69996, D70271, D70385, D70109.

SEQ ID NO: 279

- AB002334, M73718, M27717, AC002067, Z49235, AC004740, AB011102, M37814, Z98744, D13641, AF000152, AC004015, U81556, U32326, Z78417, Z68316, AC004544, Z75539, S45406, AA884499, AA358171, AA476618, AA923299, N31318, AA767128, T16272, AA130639, AA122201, R81382, AI050868, AA548662, AA429467, AA376220, T85339, AA632310, W46587, N73476, H08150, Z30154, AI038648, AA969830, AA971607,
- 15 AA836443, AA653179, AA578086, H99657, AA833921, AA807902, W67693, D55907, AA187521, AI017410, AA814462, AA214503, AA209422, W63794, N28354, H03910, AI015056, AA888526, AA604383, AA586610, AI052722, N31612, AI027159, AA888334, AI027906, AA179400, AA922771, AA706343, AA682625, AA525897, AA485217, AA306471, AA282221, N29656, H27823, R13913, F05001, Z19816, AA782560, H23416, AA581660,
- AA069521, H22320, R62283, AA778382, AA226827, AA035607, W37761, N27024, R63378, AA806971, AA639817, AA188936, N25005, AI025572, AA490953, AA490879, AA228362, AA182881, W40267, N21523, H16846, T66803, AA858168, H81767, N22843, AA657613, H73918, N20117, N24401, AA057815, AA504563, AA523596, N20388, AA939766, AA794705, AA863940, AA123123, AA217673, AA096644, AA855480, AA474154, C89108,
- 25 AA162338, AA389552, AA168055, W14081, AA895478, L11835, AA517590, AA543798, AA145689, Z36404, AI037527, AA174418, T37837, T38875, C68354, F14422, C49410, C47200, C42796, C42668, AA660084, D75577, AA113533, AA228253.

30 SEQ ID NO: 280

AB002334, AP000046, U80029, U80678, X83720, X83721, X83719, L36453, L01902, U67476, AC004513, AF008958, Y13013, L36443, L01884, X99960, L12624, U59824, L21938, M83544, L21941, AF040655, U59823, X60381, L13934, Y13001, Z72665, AF021875, U51993, U97015, Z68000, X91648, AC003100, X89598, AB011370, AA732697, R34331, AA490173, R34353, T97185, AA358170, R34468, AA213793, AA833852, AA252581, R63338, AA453724, AA774553, AI040839, AA939302, AA046369, T07867, R62976, AA099897, R61198, AA039614, AA554354, AI004712, W52791, AA219189, M77996, N59350, AI016358, N20509, AA687164, AA856726, AI039655, AA203448, AA815840, AA154089, AA637099, AA511424, AA637522, AA592225, AA726848, AA592204, AA469486, AA850337.

SEQ ID NO: 281

45 U78678, D87741, U85089, U73525, X77234, U52111, M33753, M15442, M11185, L01095, X55317, S73471, M25888, M27110, AF035586, X03098, M14674, AF037222, Z86000,

X02809, M20752, M54927, U49120, AA847574, AA149387, AA135732, AA922637, AA936062, AA531567, AA425729, H49133, AA422000, AI017377, N93282, AA931709, T83643, AA424838, AA422076, R01195, H62744, T75066, W25122, AA374578, R65722. AA335669, D80535, AA360427, R68402, T55701, AA135776, T55617, T81252, T83806, 5 AA151477, H20901, D60042, R16704, D80859, R97305, AA512991, AA349005, R10838. AA331147, AA336200, D81732, N20619, AA335929, AA373357, N88208, AA335103, AA354131, AA331146, R68603, AA418654, AA424305, AA401527, N41898, AA418592. N32554, W23283, H98948, AA338792, AA365792, AA632452, AA913286, H69272, AA393581, H20850, AA860372, AA738400, R54031, H28843, AA770375, AA004397. AA036198, AA637087, AA032895, AA209077, AA789379, AA592501, AA592073, AA644773, AA242321, AA792717, AA832853, AA000175, AA469755, AA106711, W13713, AA222077, AA073729, AA285740, AA030595, AA060539, W89620, AA511743, AA250630. AA048844, W59660, AA008295, AA674262, AA032382, AA388713, AA184824, AA572547. AA242573, AA571603, AA183767, AA432550, AA958947, AA840030, AA023650, AA600673, AA250144, AA638019, W09045, W85653, AA110456, W91027, AA612441, AA004012, AA270992, W62605, W08743, AA059946, AA119526, AA754865, AA764519, AA840310, W08102, AA497633, AA623554, W98890, AA874496, AA199485, AA097363, -- W36345, AA168042, AA754894, W82448, AA163573, AA434940, AA547350, AA073941. AA764527, W29475, W40649, W64225, AA038389, AA111279, AA123833, C89094. AA537607, AA624825, AI037102, W12906, W36498, W59419, W84175, AA549721, AA792111, AA637113, AA681507, AA856127, AA647794, AA230498, AA688518, AA693260, W65764, AA060680, AA240323, AA416465, AA800180, AA538785, AA697870. AA979477, AA990772, AA951020, AA952185, AA979349, AA695283, AA820785. AA952207, AA948974, AA735177, AA816464, AA979170, AA978753, AA979400, 952207 25 AA820529, AA803706, D74758, C63692, AA696936, AA141449, T14994, T67384, D24498. C09870, C60992, AA728216, AA264936, D15741, AA392598, C19572, AA820594, 1870. Classes AA951387, D34231, AA990717, C63656, C73751, AA799765, AA900454, AA941277, 1300 AA696002, AA949444, D48341, D46555, D22789, AA060773, AA539041, AA735216; (1) AA696070, AA801874, AA803025, C70534, AA816470, D46840, AA540210, AA440951.

SEQ ID NO: 282

30

U75272, J04443, X59754, X04644, M18660, M23070, M23071, M88652, M18661, M18662,
M23072, M18659, M23069, M25987, M25988, M18663, M23073, J04601, M20920, M26027, J00281, M59237, M73750, M25985, X59752, X59753, U14406, AF020510, M25989, AF020512, X59755, X53037, M59235, D00215, M88653, AF036953, M20788, AF036319, M25986, J05036, M84418, J00621, L08418, M19006, U90321, M57260, S49650, U19717, M11233, M63135, X05344, M84742, L02636, AF020513, U39199, U94791, U94795, L44118, AF020511, L44119, U71218, AF020509, U41166, L34360, U30251, X69193, U71217, L34361, U41165, AA335213, AA335152, AA334918, AA335113, AA335161, AA335108, H58586, AA307644, AA410697, AA074710, AA433879, AA057554, AA603295, H14144, R87854, AA133501, AA628927, AA460349, AA010204, AA633710, N48718, R87863, H61825, AA678843, R60721, W44894, R61717, AA120315, AI035456, AA118517, AA823912,
W10274, AA562594, AA106277, AA027702, AA107284, AA106186, AA276409, AA920149, AA120316, AA510649, AA407150, AA290382, AA798891, AA139798, AA110217, W34201.

AA981720, AA682039, AA407563, AA275725, AA278042, AA163997, AA013851, AA116782, W71557, W54620, AA462760, AA930892, AA105179, AA797641, AA111685, AA289286, AA198713, W81886, AA105252, AA109146, AA073528, AA044485, W53737, AI049336, AA473147, AA473046, AA108763, AA403734, AA275990, AA207434, AA124846, -5 AA105024, AA104671, AA044497, W12364, W66617, AA987105, AA407149, AA122468, AA511860, AA286094, AA116945, AA472229, AA108747, AA041924, AA920567, AA793583, AA606307, AA277989, AA116940, AA086540, AA105348, AA087372, AA062080, AA445409, AA178775, AA108425, AA803939, AA441102, AA246980, AA539362, AA817360, AA950510, AA949225, D70510, D70490, D70773, Z14725, D70266, C11719, D69774, M88822, D68834, D69602, M80169, C11732, AA848792, D69495, D70109, D70271, D70385, AA531934, D69996, AA519302, D69455, C69785, AA520727, D69484, D65766, R04900, H33785, C67195, AA900224.

15 SEQ ID NO: 283

M17517, Y00716, M65294, M65292, X56209, X56210, M65293, X64877, X86566, X86567, M12660, M29008, M29009, M29010, M29007, M74165, M96625, AC000077, M96624, Z81528, X98337, AI038982, AA022784, AA425660, AA703392, AA909379, W72541, AI004263, AA906235, AA777373, AA193302, W76166, N40593, AA022691, W88788, AA705945, N25878, AA235873, AA625237, H29609, AA573463, R29055, T55384, N71188, AA625190, T69649, N25887, AA953249, AA775652, R12676, T69578, N21984, AA236071, D57562, T54714, W86984, T54632, AA427785, H60551, W86811, W88909, N40585, T24039, F01572, T55812, N75352, T78003, AA669288, D58028, R08164, D57906, AA194256, R16414, D56851, D56970, C21121, AA872970, AA063356, H62542, R98133, AA081164, T56279, T67925, W88700, AA682307, AA571722, AA244607, AA276818, AA260552, AA208972, AA237589, AA212982, AA261571, AA212880, AA420109, AA238582, AA237849, AA239021, AA833130, AA174556, AI006101, AI009489, AA850451, C35042, D40259, AA550619, D34666.

30

SEQ ID NO: 284

D88532, AF028785, AF036256, D64047, S79169, U50413, M60651, D64048, D78486, M61906, D64045, M61746, M61745, U50414, X80907, D64046, U50412, Y13569, AF009255, X83378, AE000658, K02396, D28475, U85195, Z00044, AL021155, X82465, AJ002236, AP000009, D63325, AJ002235, AE001129, M91283, D83253, U39649, AA075494, N21330, R54049, AA018739, H52531, H82380, R85888, W73782, T53869, T64168, AA813369, T54819, R09741, W56349, W02204, T62075, AI026072, AA865771, AA042928, C20611, H71214, T55195, AA564203, H65051, R88702, R88698, AA908176, AA507448, T62131, T62083, AA858349, AA723324, T59111, W32364, AA357336, AA251725, R88705, T61839, T28286, R98411, AI014817, W87786, AI040701, AA846592, AA723344, R94971, H65604, T10766, R99231, AA833220, AA250367, AA249920, AA592066, AA146187, AA914951, C80981, AA617615, C78737, AA087285, AA124669, AA213231, AA242635, C80959, AA638927, AA107925, AA199106, AA268049, AA921268, AA116322, AA125232, AA408335, AA198281, AA066944, C80853, AA409335, AA691547, AA265444, AA241926,

AA691242, AA183017, AI021016, AA790938, AA921270, AA646703, AA553050, AA265416, W64949, AA589897, AA254757, AA125116, AA797171, C79362, AA107695, AA943105, N97745, AI008923, R05129, AI043853, AA964826, AI030758, C12414, L33655, R03952, AA965042, C73692, C24372, AA728341, AA841492, AA840909, AA841684, D36214.

SEQ ID NO: 285

D88532, S79169, Z49153, Z82243, N63056, H13935, T55806, R53696, R14926, AA425207,
AA328348, R00775, AA499102, D33132, T00309, D41692, C54032, C36448, C32054,
C29823, D34220, D34328, N81299, D73041, C84837, AA849064, T00207, T02429, T00021.

SEQ ID NO: 286

15

U47105, AF027974, AF006487, AF002995, U50986, Z66227, Z68161, Z81367, AF016656, AA207195, X96621, AA025994, W68346, AA215333, R91924, AA258838, W31729, AA340774, H50258, N72471, H46065, AI035956, AA542213, AA423626, W44192, AA914316, AA154504, AA822050, AA155013, AA261383, W65613, AA967254, AA538089, AA590442, AA207849, AA682083, AA727382, AA538126, AA794859, F14947, AF071386, C89989, AI034805, AA440688.

LIPA Y SHOOL X BETATAK

5.1 人名英格兰的**的**基础的发生的对

THE PROPERTY OF THE

- 0.95 SEQ ID NO: 287

1.但是使用的现在对现在是的基本的结果。

AA970705, AA775541, AA303864, AA293041, AA587295, AA293433, H45313, AA436425, H25827, AA603051, AA449670, C00427, AA448943, AA283127, W77774, R47308, AA903857, AA868734, AA367163, AA863171, AA248935, N69273, AA592904, AI023105, AA029848, AA843311, AA039335, T56260, AA808705, AA233035, AA526128, AA258137, H18527, AA580114, AI032602, W95094, AA017384, AA052968, AA525766, AA548114, AI023410, F02503, T58982, N63264, H80259, AA232906, T28843, AA114931, AA011568, AA582936, AA837733, AA287367, AA191597, W94481, AA011589, T28457, AA895047, W91264, AA529720, AA529718, AA103124, W65613, AI006299, AA620208, AA438081,

35 AA666705, AA272597, AA645092, AI046902, AA611705, AA254185, AA105189, AA230667, W76975, AA734359, AA008675, AA963701, AI009597, AA801365, AI012213, AA786960, AA123600.

40 SEQ ID NO: 288

X59417, X61972, D10755, AF056191, M55440, S58126, Z72533, M63641, Z35719, L11235, D82813, D82812, M22647, AC003026, AA029397, AA837580, W23501, AA488257, AA890064, AA632149, W53005, AA703270, AA446816, AA890484, W44361, AA316602, AA716489, W44618, W20013, AA843688, W52807, AA526876, W39027, W38864, W49827, AA315539, W60039, W40517, W03417, AA583625, W17240, W67897, W19376, AA126319,

W32916, AA315426, AA772085, W46657, W31060, W37276, W94046, AA860293, AA044357, AI024374, W77914, W40204, AA523299, W24607, R52324, AA505371, AI034269, AA448491, AA844258, AI041663, N50564, H21413, W47241, AA807830, N29205, W00352, AA372064, T29583, AI014835, AA329485, AA716549, AA612828, T89588, -5 - AA861938, AA045467, AA661664, W94047, AA044173, AA863108, T95448, AA488200, --N93220, AA570625, AA612774, AA716138, N50621, AI052107, AA916452, AA861538, AA301799, AI032881, AA722960, AA652222, AA946746, H06545, W05095, W53006, AA860602, AA973433, AI026047, AA843370, AA706945, AA229044, N50137, W44599, AA164391, AA353184, AA724169, AA989387, AI001105, AA691775, AA097862, AA498382, AA397046, AA271066, W53306, AA268346, AA277305, AA000087, AA220352, W89739, 10 AA871023, AA162010, W88224, W82532, AA575645, AA270450, W88232, AA242703, AA839488, W17811, W97567, AA671592, AA032731, W09846, AA221254, W41346, AA538441, W47982, AA717658, AA688641, AA268955, W65737, W33599, W33767, AA049737, W87250, AA616680, W59092, W90853, W35027, W83566, AA185007, C88831, AA265206, AA270886, W83677, AA259567, AA606911, AA795148, W10775, W34508, AA218361, W87249, W83252, W16175, W14877, W43998, AA212735, AA645199, AA537233, AA606957, C80591, AA209125, AA990184, AA162620, AA060428, AA212696, AA530006, AA002827, AA223005, AA096799, W97578, AA874315, AA198183, AA220423,

AA218100, AA914167, AA795267, AA800187, AA799492, H34953, AI013983, H35366, AA685335, AA686270, AA875494, AA686088, AA686145, AI011257, AA891199, AA893051, AA891534, AA818104, AA875736, T14568, D40057, C91136, D48504, C68337, C68653, AA051948, T43303, C23342, AA856236, AI030734.

remaining to be

在一位 计对应 医抗囊结构 经收益

公司²⁰大部门的基础设置 (44 大)。1915年12日2日

25 SEQ ID NO: 289

M27319, X61432, X13933, M19381, D83350, M18355, U12475, X04271, K01944, M19311, U44758, D45887, K01945, M36167, U12022, X56888, M27844, D10366, M19312, M17069, L31642, M16659, X13817, X52956, M19380, X52955, D10363, X05117, J04046, U37573, Y09863, AB003083, AB003081, AB003082, X64654, D10365, D10364, Y09880, U12435, 30 J00931, Y16849, M36168, M13009, Y13578, U94728, X13835, Z97178, AF064552, U39066, AF045432, X56950, M59770, M99442, X59751, Y14765, J04729, L01430, U20294, U48696, X97558, X60737, L01432, X60738, X64653, X89890, L14071, X13907, U48697, Y16851, L00100, U20295, M34540, S68025, AF034988, M17068, U83402, X98404, M64089, U48242, U48688, U13882, X97612, D10521, X14264, M80836, Y08373, M80831, AJ001092, X52242, X14265, J05116, U04381, U20292, U20297, U20293, M38380, U20296, M67472, Y00133, X52608, AA085590, AA972855, AA292469, W65332, R95997, AA070962, AA352515, AA039463, AA765750, F08797, AA070961, AA319858, H21692, AI025181, F08188, AA311828, AA307719, AA617697, H77337, AA056365, AA165448, AA081324, AA062559, R70835, AA130210, AA151806, T55981, AA315518, AA626500, AA307905, D12146, D56375, AA984790, H60495, C04208, AA363570, AA054976, C05451, C01012, AA188391, Z20627, AA169549, AA337644, AA187557, AA296205, AA337447, F01073, W61315, AA083265, AA319707, AA111941, AA923140, C03719, AA039464, AA375959, AA151831, N33911, W39415, R57734, AA361370, AA099807, T75291, AA214472, AA121188, AA319743, H17218, AA316337, AA318880, AA083768, N31129, D53196, W28491,

AA349121, AA383516, AA101256, AA563836, D54237, AA345083, C05135, D55607.

Burn Hay

1950 F (4) A)

4. 不是一种**大**农的主

D82230, D56108, AA330164, AA081812, D82174, D54621, R58725, AA344038, D55422, D58643, AA188404, F13050, AA294980, AA662790, AA165647, N75782, AA668657, D54176, AA385814, AA703708, AA415552, C88073, AA684027, AA711831, AA590586, AA656912, AA409434, AA616371, AA684346, AA611591, AA028347, AA272608, C85276, 5 AA407900, AA880156, AA028602, AA674705, C88521, AA058146, AA060730, AA538358, AA547523, AA399884, AA116810, AA000519, AA413971, AA646840, AA681659, AA245104, AA590867, W89787, AA499937, AA718454, AA645997, AA036006, AA608170, AA671896, W48389, AA645276, AA241991, AA798647, AA871164, AA608474, AA575623, AA871618, AA466257, AA794576, AA673197, AA637500, AA161802, AA245260, AA755895, AA498530, AA465791, W75527, AA615781, AA271946, C80799, AA475171, 10 W08912, AA397196, AA416209, AA413922, AA016646, AA693118, AA636900, AA003640, AA408646, AA036269, AA105846, AA624250, AA030062, AA032334, W90914, AA087002, AA071816, AA030407, AA597155, AA060724, AA242001, AA789949, AA789947, AA536983, AA253792, AA615118, AA518033, AA002896, AA770786, W89469, AA273913. AA674151, AA238734, AA008724, AA023153, AA104496, AA105039, AA791596, W83513, AA103089, C88628, AA859997, H31806, AI011090, AA851101, F14583, AA991006, C88396, H34918, AA684870, T36983, AA660699, AA933275, C94461, C92685, AA933095, C93709, C91967, AA933356, C91342, AA933125, C90427, C89654, C94390, AA933350, AA933204, AA933184, AA933186, AA933185, AA933317, AA660727, AA933353, AA685047, AA933347, AA933216, AA933241, T23115, C93839, AA933116, AA660906, AA933094, AT000091, W78687, C90863, AA686880, AA224655, AA660338, AA660367, AA753213. D15295, AA720465, AA933111, AA685917, AA803928, D24337, D15079, D41425, D40858, AA933122, AA687065, N65851, AA754402, AA933318, N97037, AA713132, T20450, R90459, AA754338, AA712683, N65115, N38419, AA713276, W49440, AA751750, AA803172, AA686881, AA686535, C73257, AA750187, N25393, AA804151, AA825103. AA696613, N37441, Z26721, N38659, H77207, AA741921, W63459, AA933260, N28040, AA684544, AA264512, AA660937, C06757, N28049, C29359, AA754104, AA825102, AA754642, AA751583.

30

SEQ ID NO: 290

M27319, X61432, X13933, M19381, U12475, D83350, M18355, K01944, X04271, U44758. M19311, D45887, U12022, M36167, K01945, X56888, M27844, M19312, M17069, L31642. D10366, X05117, X13817, M16659, M19380, X52956, X52955, J04046, X64654, D10365. U12435, D10363, AB003083, U94728, M13009, AB003081, Y09863, J00931, M36168, D10364, Y09880, AB003082, Y13578, L00100, X13835, X13907, M59770, X56950, M99442. J04729, M34540, S68025, M64089, M16475, Z95395, AF034988, X14264, L00099, Y14765, D10521, AF064552, M17068, L01432, U12505, U20294, U48689, X14265, U48242, U48688, X59751, Y08373, L01430, U20296, U20293, U20297, X60737, L20507, X60738, U20291, U20292, M80836, U83402, X98404, J05116, U13882, L14071, X89890, X52242, X56511, M73711, M73712, M67472, U10150, X52608, K02944, U04381, U20295, M80831, Z12024, M88307, AA085590, AA972855, AA292469, W65332, R95997, AA070962, AA352515, AA039463, AA765750, F08797, AA070961, H21692, AI025181, F08188, AA617697, H77337, R70835, AA130210, AA307719, T55981, AA311828, AA319858, D12146, D56375, H60495.

AA056365, AA165448, AA081324, AA984790, AA062559, C04208, AA151806, AA363570,

AA315518, AA626500, C05451, AA054976, C01012, AA307905, AA337644, AA296205, AA337447, F01073, W61315, AA319707, AA188391, AA039464, AA923140, AA169549, AA187557, AA151831, C03719, R57734, AA083265, AA563836, AA375959, AA316337, AA330164, W28491, N33911, AA318880, W39415, AA121188, AA361370, N75782, 5 - AA214472, AA319743, H17218, AA165647, T75291, AA668657, AA083768, N31129, D53196, AA349121, AA101256, AA383516, AA662790, AA328474, D54237, AA345083, D82174, D54176, AA384885, AA082880, AI001786, D82230, AA081812, D54621, AA111941, R58725, AA344038, D55422, AA169417, D58643, AA167154, AA188404, AA577290, AA703708, AA385814, C88073, AA684027, AA415552, AA409434, C85276, AA656912, AA407900, AA674705, AA590586, AA711831, AA547523, AA616371, AA399884, 10 AA611591, AA684346, AA116810, AA028347, AA646840, AA272608, AA413971, AA880156, AA028602, AA590867, AA718454, AA058146, AA060730, AA645997, C88521, AA538358, AA608170, AA645276, W48389, AA241991, AA000519, AA681659, AA245104, W89787, AA608474, AA794576, AA499937, AA161802, AA798647, AA671896, AA036006, W75527, AA871164, C80799, AA397196, AA575623, AA245260, AA636900, AA466257, AA673197, AA871618, AA615118, AA637500, AA271946, AA755895, AA796872, AA615781, AA465791, AA498530, D19438, AA475171, AA408646, AA416209, AA413574, AA036269, AA597155, AA105846, AA030062, AA032334, W90914, AA087002, AA071816, AA220765, AA030407, AA624250, AA060724, AA242001, AA789949, AA789947, AA253792, AA273913, AA238734, AA408862, W89469, AA518033, AA408836, AA674151, AA002896, AA770786, AA008724, AA794495, AA791596, AA104496, AA105039, AA239736, AA023153, C88628, AA859997, H31806, AI011090, AA851101, AA991006, F14583, T36983, C88396, H34918, AA684870, C90427, C91967, C92685, C94390, C89654, W85. W85. C93709, C91342, C94461, T23115, C93839, AA685047, C90863, AA224655, W78687, W7867, AA660367, AA660338, AT000091, AA685917, AA686880, N96999, C29359, AA687065, S. BAGGGGGG 25 C38862, AA720465, N61249, W66047, W63459, C49579, N65851, T44316, AA657305, AA720465, N61249, N65851, N61249, N612 C43376, N38696, C38711, N38419, AA686881, AA042238, AA686535, D15295, C73257, AA941526, AA264512, AA650766, C38542, Z26721, N65115, D24337, N38659, H31995, AA684544, D15079, D41425, D40858, H77207, D39557, D39547, N37441, AA824832, Z17617, Z47664, AA686700, T46639, W43843, AA751471, AA525619, C57747, AI008629, 30 AI008527, AA891246.

SEQ ID NO: 291

35

U75272, J04443, X59754, M23077, M18667, M18665, M23075, M23074, M18666, M23076, M18664, M18663, M23073, M88652, M25993, X04644, M73750, M59235, M19698, M20920, M59237, M23165, M26031, J00285, X59755, X59752, D45187, D38104, L08418, Y10928, M88653, M20788, J04601, X97399, J05036, M25990, M25989, M84422, D90905, M84424, X69465, X59753, Z36158, X76053, Y11668, Z36157, M36482, U94791, AA906670, 40 AA534285, AA334924, AA335157, T28355, AA335226, AA335225, AA335151, AA334923, AA335205, AA335206, T62158, T61932, AA335201, AA335145, AA335143, AA335110, AA334925, AA335896, AA679226, H78707, AA282121, F15763, R88501, R17479, W52843, AA410887, N20475, R61184, AA368515, R72703, AA326537, AA641710, AA402165, R56461, W13531, AA172581, AA562772, AA739244, D40781, AA858922, AA892100, 45

AA850427, AA097166, AA957918.

D89937, U06863, M91380, U06864, X64696, D90880, AE000337, AL008732, M30023, AF033384, M32756, X60598, M76370, M88479, AA545793, AA853932, AA853320, R57888, N86419, AA368106, AA852349, Z17837, H71176, AA694482, H56510, H86231, AI035782, AA030804, AA033212, AA049640, AA734288, AA838966, AA734000, W71206, AI006564, AA985693, W71004, AA117341, AA272103, AA727322, AA672588, AA895542, AA288633, AA530779, AA561591, AA796608, AA163681, AA986542, AA242144, AA011746, AA968036, AA798873, W57000, AA561558, AA521529, AA511056, W18392, W30149, AA794167, AA003227, AA982579, W16213, AA118845, AA000673, C88553, AA270970, AA790713, AA518980, AA271934, AA815597, AA799007, AA727527, W91212, AA422990, AA272032, AA162257, AA066635, AA755726, AA388352, W78403, AA445170, AI036864, AI049079, AA474520, AA231301, W96942, AA798552, AA615270, AA122523, AA495069, D35571, D39195, T44187, D67318, D67156, C27163, T41576.

SEQ ID NO: 293

- AC004770, Z68106, Z71260, Z85994, AL021939, Z75714, X54029, U53181, U21323, AE000348, U36840, U52516, AA716497, H98974, AA703998, AA044900, AA044689. AA031932, AA491463, AA599783, AA032050, AA186359, AA173933, AA600033, H97601, W52070, A1041635, H97416, W52215, H97549, AA137262, W46845, W92629, AA026782 25 W76397, AA661793, W94840, AA128494, N79437, W46494, AA595373, W78218, N23437, 111 W94418, W46918, N34381, W46790, AA583657, AA599353, AA961557, W58194, N33105, 403 W42793, W96120, H50538, W52141, W81572, AA593009, AA983246, H97340, AA147651, R95788, N67716, N58122, T47507, AI025353, AA888923, R56693, W96121, AA788950, AA722567, W74255, AA987381, AA565505, W51762, N70652, AA188212, AA026781, R87166, AA501650, T33491, AA025047, W17326, R28503, R95744, AA903702, AA480682, R07697, AA664567, N73609, R39109, AA988438, R87165, AA666225, N44927, AA886647, AA599854, T62853, T90854, AA987862, AA853933, AA853321, R83373, C00827, AA822923, AA795295, AA267575, AI047069, N28086, AA958820, AA864074, R75316, AA066112, AA212095, AA596781, AA870117, AA646803, AA542310, AA032872, AA444992, AA096915, AA030466, AA408990, AA617457, AA413993, AA065944, AA624775, AA555747, AA611700, AA242296, AA177250, AA521523, W09897, C94851, AA859885, D68452, C69362, AA054909, AI044075, AA063739, C89702, AA944417, C23818.
 - **SEQ ID NO: 294**

40

AA893454, AA893469.

D89937, U06863, M91380, U06864, X68830, AE000337, D90880, X64696, AL008732, AL009031, M32756, AC002326, AA545793, AA853320, N86419, AA852349, Z17837, AA853932, R57888, AA429966, AA368106, N44297, AA434575, AA694482, AA770656, T49317, N45937, H56510, H59509, H86231, AI035782, AA030804, AA033212, AA049640,

AA734288, AA838966, AA734000, W71206, AA929708, AA939398, AI006564, W39990, W39917, AA985693, W71004, W35012, W45885, W65892, AA117341, AA014882, AA037985, AA036185, W70655, AA049849, AA170363, AA681172, AA286069, AA763976, AA543854, W33683, C82438, C83294, AA495069, Z34605, D35571, D39195, Z30794, Z35347, T42689, AA848947, AA900181, AA819765, AI010160, C22676, AA819768, T44187, C72525, AA859059, AA848693, AA945652, F14806, AA264114, AA946271, AI009795, AA201180, AI013811, N60116, AA990819, AA946195, AA945977, D67156, C22372, AA735165, D67318, AA819575, AA438989, AI011641, AI009627, AA848695, T41576, AA753416, AA848791.

10

SEQ ID NO: 295

AC004770, Z68106, Z85994, Z71260, X17403, AL021939, Z75714, AE000348, AC000392, U21323, U36840, L12104, AA716497, H98974, AA703998, AA044900, AA044689, AA031932, AA491463, AA032050, AA599783, AA186359, AA173933, AA600033, H97601, AA627069, W72045, W58303, AA548128, AA025046, AA088246, W63570, AA669937, H97416, W52215, AI041635, H97549, W52070, AA137262, W46845, W92629, AA026782, W76397, AA661793, W94840, AA128494, N79437, W46494, AA595373, W78218, N23437, W94418, W46918, N34381, W46790, AA583657, AA599353, AA961557, W58194, N33105, W42793, W96120, H50538, W52141, W81572, AA593009, AA983246, H97340, AA147651, N67716, N58122, T47507, AI025353, AA888923, W96121, AA788950, AA722567, W74255, R56693, AA987381, AA565505, W51762, N70652, R87166, R95788, AA501650, T33491, W17326, R28503, AA025047, R95744, AA903702, AA480682, R07697, AA026781, 25 AA664567, N73609, R39109, AA988438, W47034, AA666225, AA886647, AA599854, T62853, R81056, T90854, AA987862, AA853933, AA853321, R83373, AA599400, C00827, AA795295, AA822923, AI048751, AI047069, AA833312, AA267575, AA028683, AA462435, AA189904, AA838967, W77258, AA492644, AA190010, W83140, AA624775, AA059792, AA958820, AA864074, AA265204, N28086, AA542310, AA432856, C94851, AA859885, D68452, AI009603, AA063739, AA925505, AA054909, C23818, AA893454, AA996570, AA438982, AA893469, AA997787.

SEQ ID NO: 296

AC004770, Z68106, AL021939, Z71260, Z85994, Z75714, U21323, AC002332, AB008430, AE000348, U36840, AA703998, AA716497, H98974, AA044900, AA491463, AA031932, AA599783, AA600033, AA173933, AA186359, H97601, AA627069, AA044689, W72045, AA548128, AA088246, AA669937, AI041635, H97549, AA032050, AA137262, W46845, W94840, H97416, AA661793, AA026782, W92629, N79437, W46494, W58303, AA595373, W78218, N23437, W94418, N34381, W76397, W46790, AA583657, AA599353, AA961557, W58194, N33105, W46918, W42793, W52215, W96120, H50538, W52141, W81572, AA593009, AA983246, AA025046, H97340, AA147651, W63570, N67716, N58122, T47507, AI025353, W96121, AA888923, AA788950, AA722567, W74255, AA987381, AA565505, W51762, N70652, R56693, R87166, T33491, AA025047, AA128494, W52070, R95744, AA903702, AA480682, AA664567, N73609, R39109, AA988438, AA666225, AA886647,

AA599854, T62853, T90854, AA987862, AA853933, AA853321, AA501650, W17326, R83373, AA599400, C00827, N94338, Z38867, N29399, T54372, H14477, AA719902, AA822923, AA795295, AA267575, AI047069, AA864074, N28086, AA542310, AA958820, C94851, AA859885, D68452, AA063739, AA054909, AA893454, AA893469.

SEQ ID NO: 297

Z68106, AC004770, AL021939, Z85994, Z75714, X17403, U21323, U36840, Z81140, AE000348, Z75546, Z54269, Z77663, U73826, Z78410, AF000266, AA716497, H98974, AA703998, AA044900, AA044689, AA031932, AA491463, AA032050, AA599783, AA186359, AA173933, AA600033, H97601, W63570, AA627069, W72045, AA025046. W58303, AA548128, AA088246, AA669937, W52215, H97416, W52070, AI041635, H97549, AA137262, W46845, W92629, AA026782, W76397, AA661793, AA128494, W94840. N79437, W46494, AA595373, W78218, N23437, W94418, W46918, N34381, W46790. AA583657, AA599353, AA961557, W58194, N33105, W42793, W96120, H50538, W52141. W81572, AA593009, AA983246, AA147651, H97340, R95788, N67716, N58122, T47507, AI025353, AA888923, W96121, AA722567, AA788950, W74255, AA565505, R56693, AA987381, W51762, N70652, R87166, AA026781, AA188212, T33491, W17326, AA501650. AA025047, AA903702, AA480682, R28503, R95744, R07697, AA988438, AA664567, 20 N73609, R39109, AA666225, AA886647, AA599854, T62853, R87165, T90854, N44927, AA853933, AA853321, AA987862, R83373, C00827, AA822923, AA795295, AA734859, AI047069, AA215119, AA237684, AA267575, AA859885; C94851; D68452; AA063739, 等方式等数 的复数电池 AA054909:

SEQ ID NO: 298

25

35. 1 Sec. 3

40.40

2 Kg 2 4 4 1 1

A CONTRACT MARKET THE CO.

L01042, U12965, L78442, AC002091, AC003695, Z84469, Z81479, Z81367, U61955, AA626005, AA831000, AA758593, N41155, N32581, AA431387, H61959, R12838, AA470066, N59643, AA694484, W86025, AI041095, W19922, R14606, AI016922, AI002718, C81060, AA563173, AA152706, AA666594, W15042, AI036790, AA841581, AA701823, C65022, D35680, AA841659, AA841976, C48782, AA841736, H32842, AA801157, C67633, AA754415, AA606197, C56870, AI035162, C52552, AA998683, D33223, N43590, N69627, AA879364, T13937, AA990970, D39194, C94099, AA433194, T01165, C72289, C61178, C51688, AA892062, C25009, C94010, C24896, H33580, D49144, D28016, AA819745, AA892203, AI026247, D75211.

光 医二氢甲基甲基酚基酚 自由

· 1. 通 《基础编码》。2. 5

40 SEQ ID NO: 299

U50311, Z99127, Z82090, AF025451, X15853, U50071, X70810, AA287535, W03007, AA252318, AA813176, C75334, D57732, R79599, AA328247, R79598, D57952, D25592, R63235, R80014, R63275, AA047337, R63288, AA745498, N32931, AA296386, R93964, N76780, T36336.

L01042, U12965, L08472, AC004496, AA001194, AA594960, AA742241, AA401664, AA400306, AA923815, AA810266, AA961883, AI002718, AA766247, AA620608, AA761978, 5 - AA318561, AA831353, AA830332, AA789926, AA153292, AA162566, AA189920, AA874294, AA855391, AA175181, W34970, AA990174, AA710982, W08075, AA174619, AA689968, W75898, AA733271, AA155251, AA170158, AA709655, AA734797, AA267186, C90589, C90931, C48782, C65022, D35680, AI043591, AT000322, C72289, C61178, AA819745, AA892203, T01165, H33580, D28016, D37698, C51688, AA892062, D33223, AI045841, C84799, C52552, 10

SEQ ID NO: 301

, Z92543, M94286, Z15118, X79345, AL008989, AC003700, X51471, X83994, Z82073, Z78022, Z82090, Z32683, L34876, AC004679, U23182, L48177, X14804, AA287535, AA252318, C75334, W03007, AA813176, R63275, R63288, AA745498, AA047337, D57732, AA328247, R79599, D57952, R80014, R79598, D25592, R63235, AA804882, N32931, AA774765, AA678473, AA653298, AA283267, N23096, AA723004, AA838762, N23088, AA499027, AA183288, AA941813, AA697077, N97751, AA949229, C84216, N20702, C91523, R65454, AA550463, AA958050, F15230, C42134, AA850568, AI035083, AA859433,

> · 智· 图 《 下基份》 # 一个还没国家物理的企业。

的可证的 机等级电池 人名

SEQ ID NO: 302

D34651, AA736240,

25

, AP000015, AE001115, AJ224476, AB011483, Z92543, Z66498, AL008989, X79345, X69126, Z47356, AL021940, X51471, Z82090, AC002519, X51802, Z81114, U14101, L48177, U14102, Z78022, AC003700, U90093, AC004679, X14804, K02803, AE000665, L34876, C75334, AA287535, AA252318, W03007, AA813176, D57732, R63275, R63288, AA328247, R79599, AA745498, AA047337, R63235, R80014, R79598, D57952, D25592, AA804882, N32931, N62031, AI017596, AA286861, AA723004, AA147600, N27870, AA204787, AA766278, AA037614, AI050927, R44996, AA283267, N53090, W19951, R38077, N23096, H06680, AA350808, AA806909, R01137, N23088, AA286751, AA346316, AA969786, AI017579, T48651, AA027226, W67240, AA318128, AA701647, AA577740, AA773071, AA838762, T63624, AA948339, AA296386, AA142481, AA499027, Z36309, AA064091, AA117297,

AA512137, AA388064, AA267691, AA833044, AA387982, AA869126, AA163118, AA174989, AA941813, AA697077, N97751, AA949229, C91523, N20702, C22914, AA850568, AI035083, AA924780, AA114404, AA550463, AA696948, AA951599, T36336, AA958050, AA263717, AA891660, AA901213, AA924291, AA941895, AA946463,

AA736240, F15230.

SEQ ID NO: 303

L01042, Z54865, X59711, Z50071, M77245, U73458, Z71347, Z50735, X91803, J04096, X99537, U01158, U05294, X86470, AC003972, AA309347, AA722684, AA224465, W19444,

AA468581, AA176346, R13076, R98448, AA045309, AA669942, AA516399, AA311187, AA232313, AA218947, H77580, AA587675, AA534810, AA463631, AA602680, AA025677, H90532, AA813080, AA582946, AA147286, Z39687, AA687231, AA481499, AA348055, AA223944, AA493565, AA443177, W93645, W42707, R98449, R15638, T79861, AA855130, 5 - - AA760706, -AA025676, N32138, R96927, T-33266, -AA910590, -AA642174, -AA476895, -- -- -AA159578, AA127278, AA037036, T89285, AI002362, AA714970, AA178846, AA040539, W96486, AA143770, F19435, R65637, AA638668, AA050845, AA450612, AA237427 AA103887, AA466432, AA122463, AA098100, AA674951, AA499697, AA271280, AA815547, AA672068, AA432539, AA110731, W08834, W15672, AA738668, AA617191. AA212974, AA930798, AA116717, W48275, AA004000, W08053, AA790851, AA623308, AA611070, AA606809, AA473063, AA285443, AA266142, AA080212, W08178, AA048341, AA009176, AA656426, AA655834, AA000140, AA445331, AA273596, AA116742. AA109939, AA445284, AA466501, AA498742, AA275978, AA614911, AA108635, AA265513, AA145957, AA105792, AA105743, AA063836, AA000715, W41246, W34655. AA518871, AA445423, AA403873, AA221387, AA116578, AA254772, AA821463, AA710561, AA500563, AA137789, AA034735, AA030888, AA734319, AA718467, AA435019, AA276170, AA273541, AA207749, AA124101, AA120318, AA086663. AA727731, W53320, W48551, W17604, W13222, AA499120, AA250660, AA125066, AA657239, AA709861, AA052106, AA118988, AA170286, AA163903, AA516863, AA670545, AA691283, AI037272, AI050482, AI045428, AA996720, AI030004, H32511, 20 C63380, AA900476, AI014091, F15107, D35735, AI013879, H35232, AA685207, AA754479, AA685746, AI009720, AA894046, AA998190, AA818593, AA891532, AA960722, AI014069, AA955102, AA979976, AI030621, AA848774, AA698615, AA946050, AA108294, AA925224. AA955622, AA849328, AI008147, AA899774, H35402, AA952351, AA924715, AI013403. 化三元基 建氯化甲烷二烷

SEQ ID NO: 304

A COLA BOOKER BEAULT COLA

25

U07563, AC000118, Z49866, Z98950, Z70280, AC004217, AC003108, AC002041, AD000813, X76498, U73640, U14573, AC002301, AC004231, AF045555, AC002303, AB002353. AC002988, AC002316, D38081, AC002107, AC004678, AC002039, AC003086, Z95115, AC002477, AC004699, Z97054, AC004056, AL021154, AL022322, AL021546, AP000045, Z85996, AF001551, AC002045, Z98048, AC004656, Z94056, AC002314, AL020997. AC002553, AC004491, Z97181, L78810, AC004703, AF038458, Z82215, U62293, U78027, Z84480, AL008710, AC004126, AF064858, Z92546, U14574, Z82206, AC002565, AC002404, AC002476, Z95152, U95742, AC003663, AC004687, AC003072, Z97184, Z75407, Z82194, AF017104, AP000031, AC002554, Z84814, AC002040, Z82203, AP000011, AL022165, AL021878, AC005247, AC004777, U91323, AL031005, AC000120, Z98036, AC003038. Z95113, AF001549, AC004447, Z84469, AC004263, AC005152, AC002551, Z85994, X54486, M30688, AC002094, AC000003, AL008725, AC004076, AC004003, U32576, N72305. N40630, H26274, H25696, AA904211, H07953, T74524, W03007, AA297666, AA468505, AA084609, AA833896, AA833875, AA614254, AA228368, N73060, AA621381, AA053463, AA483606, AA133332, AA568204, AA570740, AA425924, AA715173, H71678, AA715075, AA491527, AA468371, AA230025, AA536040, AA303054, AA612727, AA613761. AA856961, AA584655, AA467760, AA483075, AA719845, AA297670, AA302661,

AA664126, AA574286, F13749, AA535216, AA602906, AA233509, AA622801, T54783,

- H90114, AA603413, AA224889, C15363, AA587215, AA515728, AA489766, AA492298, T67090, AA228269, AA482928, AA491767, AA493464, AA130647, C75403, C75526, F19373, AA584482, AI050076, AA757426, AA133013, AA224815, AI038304, AA128899, AA573067, AA721645, AA640826, T70299, H13120, T46960, AI003086, AA550989, AA224816, 5 - AA070614, AA526099, AA654874, AA564582, N57781, AA513846, N23504, AA209415, AA224966, AA846923, H82679, AA847499, AA668587, AA523203, AA523204, AA583394, AA626567, AA132765, AI051656, AA823826, W51648, AA501297, C88111, W64166, AA501217, AA517646, AA517461, W64884, AA415875, AA863851, AA516629, AA516955, C87922, C86532, W62449, C88193, W61986, W62377, W71517, C87864, AA474026, W77222, AA501262, AA501128, C80822, AI042687, C87438, AA544076, AA518813, AA939867, AA563185, AA711962, AA764103, AA864092, AA727828, AA096630, AA067033, W45941, AA114713, AA709758, C87581, AA920903, AA175601, AA881230, AA939912, AA086548, AA832680, AA175695, C87512, AA881598, AI006950, C79702, AA473085, AA915562, W10055, AA435247, AI046782, AA397202, AA792326, AA821875, AA260746, AA462161, AA237411, W40894, AA571579, AA036275, AA636491, C78473, AA671494, W12161, AA770935, AA727156, AI042727, AA259770, AA896910, C78144, AA511247, AA004162, AA833114, AI036356, AA273651, AA166007, AA462759, AA117299, AA561474, AA422857, AA170588, AA799246, AI006432, AA184613, AA517834, AA611534, AI044039, AA550283, H39328, H39389, W06387, W06750, H39426, AF064463, Z69957, H39351, AA923995, AA107123, AI044651, H34360, AA943478, AA900983, AA850322, AA439604, AI009786, AI009724, C07070, AA943496, AA964894, AI013331, AA997321, AA851016, AA851041, AA925284, AA819889, AI028846, C06795, C91523, AI007545, AA892670, AI013373, AA957648, AA140615, N38007, H36130, C44202, AI030013, H35257, VIII 3588
- AA893817, H39330, AA957649, AI010426, AA944794, AA963620, AI010756, AA891772,
 AA800253, AA893373, T02678, AA874831, AA926052, AA945031, AA540237, AA541099,
 AA892461, AA924449, AI029973, N97960, AA849983, AA925965, AA439515, AA538568,
 C25826, AA800915, AA849887, AA891273, AA923898, AA948884, AI008183, AI043956,
 AA056877, AA441346, AA201570, AA202864, AA874861, AA924761, AA997451,
 AA979044, H35341, AA264062, AA859834, AA201518, AA942692, AA950570, AA943694,
 AI009859, AA964515, AA978912.

- L01042, Z54865, M77245, X59711, Z50071, X91803, J04096, Z50735, AC003986, X99537, AC003972, X86470, Z71347, U39442, U01158, AC004031, U73458, U05294, H28333, AA309347, H24941, AA855130, R15638, AA602680, R07992, AA622931, AA760706, AA622923, AA127278, AA693321, R98449, R96927, N32138, R13076, AA476895, AA040539, AA037036, W80852, H88068, H15767, T89285, T79861, AA910590, W72947, AA642174, AA284563, AA159578, AA143770, N92984, AI002362, H21882, R65637, AA760948, AA178846, W96486, F19435, AA659736, AA459412, AA400812, W19444, H25772, AA934980, AA722684, AA669942, AA555111, AA443177, AA176346, W88820, H77580, T83333, AA714970, W74413, N93537, R98448, AI042461, AA516399, AA468581, AA311187, AA223944, AA218947, AA535537, T33266, AA587675, AA582946, AA463631, AA232313, AA025677, H87647, H41246, AA857537, AA813080, AA600700, AA60070
- 45 AA232313, AA025677, H87647, H41246, AA857537, AA813080, AA600709, AA578079, AA534810, AA478301, AA181085, AA045309, H90532, H59071, AA348055, AA147286,

H43876, Z39687, AA729334, AA687231, AA224465, W93645, W42707, H28128, H24740, H21824, AA481499, AA025676, AA962094, AA493565, AA638668, AA050845, AA710561. AA266142, AA212974, AA116742, W08178, AA086663, W08053, AA718467, AA611070, AA499697, AA435019, AA275978, AA432539, AA000715, W53320, W08834, AA271280. - -5 - AA499120, AA450612, AA145957, AA738668, AA116578, AA103887, AA080212, -AA000140, W15672, AA500563, AA466501, AA815547, AA122463, AA250660, AA137789, AA048341, AA030888, W41246, AA614911, AA285443, AA254772, AA237427, AA034735, AA930798, AA466432, AA656426, AA672068, AA105792, AA727731, AA110731. AA445331, AA403873, AA276170, AA207749, AA120318, W48275, W48551, W17604. AA655834, AA498742, AA445423, AA445284, AA105743, AA273541, W34655, W13222, AA821463, AA674951, AA617191, AA606809, AA518871, AA265513, AA116717, AA109939, AA108635, AA063836, AA790851, AA623308, AA473063, AA734319. AA098100, AA009176, AA004000, AA273596, AA124101, AA221387, AI045428, AA996720, AI030004, H32511, AA751623, F15107, D35735, C63380, AA900476, AI013879, AI014091 AA685746, H35232, AA685207, AA754479, AA946050, AI030621, AA818593, C42349, AA108294, C39933, AA955622, AA438632, AA848774, AA849328, C39540, AA952351. AI014069, C33475, AA894046, AI013403, AA697896, D33424, C23821, C69685, H35402, AA698615, AA891532, AI009720, AA998190, AI008147, AA955102, C40594, AA925224, AA924715, C40993, AA438416, AA697088, AA979976, AA899774.

20

SEQ ID NO: 306

The thirty New Agreement was L01042, Z54865, Z50071, U12965, M77245, Z84469, X59711, L78442, L08472, U39442, U73458, J04096, AC003972, U01158, U05294, Z50735, Z81367, X99537, AC003986, U05294, Z50735, Z81367, X99537, AC003986, U05294, Z50735, Z81367, Z8167, Z AC004496, X91803, Z71347, U61955, AA001194, AA831000, H28333, AA907185. AA493142, N48262, AA227914, N69341, N48269, AA836225, AA401439, AA309347. AA887267, AA638668, AA789926, AA050845, AA030888, AA473063, AA139335, AA672068, AA734319, AA403873, AA276170, AA184339, AA237427, AA120318, AA063836, W13222, AA518871, AA718467, AA445284, AA105743, AA221387, AA207749, AA189920, AA606809, AA000715, W41246, W17604, AA821463, AA656426, AA655834. AA617191, AA086663, AA098100, AA498742, AA466432, AA445331, AA254772, AA212974, AA175181, AA266142, W48275, AA674951, AA445423, AA265513, AA109939, W34655, AA874294, AA162566, AA271280, AA116717, AA108635, W08178, AA004000. AA790851, AA727731, AA623308, AA499697, AA450612, AA273541, AA273596. AA153292, AA145957, AA124101, AA614911, W48551, W15672, AA930798, AA710561. AA285443, AA275978, AA122463, AA105792, AA034735, AA009176, W08834, AA738668, AA499120, AA466501, AA435019, AA048341, AA116742, W53320, W34970, AA103887, AA080212, AA000140, W08053, AA855391, AA815547, AA611070, AA500563, AA432539. AA250660, AA137789, AA110731, AA116578, AI045428, AA996720, AI030004, H32511. AA751623, AI013879, D35735, C65022, C63380, AA841581, F15107, C48782, AA841736. AA900476, C90931, D35680, AA841976, AA841659, AI014091, C90589, AA685207, AI043591, AA801157, AA685746, AT000322, AA754415, AI035162, AA754479, H35232.

Company of the property

S51858, U22009, AF013273, M63489, AC003984, AF067609, Z72771, AL023534, S77094, X94357, AC002992, Y00762, AF016412, X02508, Y14081, U47924, AC002465, AA278473, - AA669484, AA233482, AA344552, AA082364, AA937305, F00220, AA344335, AA333224, H22822, W81677, R13215, AA491413, Z42799, AA906359, AA101483, R82656, R33858, AA183221, AA657048, AA038212, AA462517, AA544152, C88760, AA178691, R75435, AA989839, AA796850, AA815887, D64326, C64754, AA799599, D34505, AA850502, D72055, D73344, T00102, T02095, AA901359, C38841, R86355, T00999, AA728587, C53849, AA585995, C37871, D65352, D33998.

SEQ ID NO: 308

- S51858, AF025464, AF024502, Z70310, U60205, M60873, AC002531, AF016447, U93162, AL023841, AB009498, AA937305, AA279145, AA669484, AA781806, AA992011, AA234362, AA224978, AA225019, AA278473, AA459901, AA437381, AA478049, R66346, AA436920, AA344552, F00220, AA344335, D82103, H93619, AA460384, T06072, R93147, AA524527, W39240, AA679163, AA991228, AA938240, AA044782, AI022397, AI041834,
- 20 AA575865, W30863, D44701, H95004, AA280788, AA996103, AA814140, AA489052, AA508696, AA559009, AA262090, AA033520, AA724929, R53806, AA307914, N25127, AA351987, AA916757, N20582, AA034194, AA676465, AA280782, AA228658, C88781, AA038212, AA183221, AA265678, AA822645, AA645553, AA462517, AA123385, AA386732, AA161963, AA109891, C13575, D36631, T14807, AA819110, C46898,
- 25 AA141090, C90842, AA899333, AA875010, AA495436, AA699065, C42828, AA891889.

SEQ ID NO: 309

- AZ75895, Z69917, AC004768, M12922, Z39710, H09245, R39824, F03749, T52127, AA325912, AA493590, AA411065, H83531, H80456, AA747004, AA437325, AA583390, T07307, T50392, Z28508, T95864, AA315999, T95858, T64635, AA672225, AA738911, AI019267, AA066186, AA185213, AA072847, AA072651, AA024238, W64263, AA415475, D19329, AA072855, AA245717, AA036227, W66967, W99134, W61778, AA475421,
- AA438233, AA244792, AA822118, W62965, AA000795, AA839391, AA467723, AA097649, AA616290, AA752374, AA893758, T14820, D41474, AA818727, T14914, AA899904.

SEQ ID NO: 310

40

- AF060181, AF012126, Y13472, AF035374, S53307, S53301, D63790, Z98949, AF039713, M30114, AF033029, U02512, D00863, AL024485, L13855, Y10259, M69019, M13655, M57505, U15304, AL021816, D89168, M11969, X03636, M57504, U02513, AA329832, AI028699, T48184, AA884702, AA863120, AA091936, R72495, AA486001, W38657,
- 45 H91730, AA681096, AA793734, AA981374, AA675674, AA690226, AA981061, AA710968, AA880265, AA437673, AA437687, AA591866, AA472881, AA088934, AA795731,

**ひ フブルマルリン

AA073408, AA792627, C42637, C92164, L47042.

SEQ ID NO: 311

AP000015, U58749, U40953, AC002533, X69121, AF043699, AC003016, U50542, U09985, AC002350, Z84488, AF047660, AC002066, M55913, D87000, Z74696, D12614, Z79997. AC004003, X67715, M16441, Z93393, Z15026, D10727, X01393, X02911, S44898, U52112, D00102, AP000049, Z81465, AF036382, L78833, Z68879, Z46792, AC004551, AI003834. AI017914, AA483199, AA328991, AA452055, AA704670, AA482705, AA088464, AA626101, N63395, AA447870, AA035627, N48929, AA873000, D45305, N51078, AA847320, R40789, N69574, AA062843, AA766857, H91645, N63780, N66935, T06566, AA361436, AA313016, R92628, N67652, AA984114, AA714632, AA847717, H75539, R96142, T83983, AA237418. AA119294, AA125550, AA137476, AA413638, AA619999, AA204281, AA691025, AA823757, AA414319, AA268043, AA210338, AA537203, AA666619, AA536698, AI020243. W41084, AA619116, AA717327, AA816053, AA174774, AA615978, AA915439, AA117069. AA153256, AA270506, AA154670, AA863974, AA415736, AA168244, AA066545. AA940122, D77581, AA821456, AA289951, AA624442, AA900071, AA946064, AA275544. D33641, C36319, AA892894, D32930, C52688, AA817046, AA395150, AA899974, AA851527, AA950955, D34300, AA651466, D32420, AA859574, AA892571, AA945159. 20 AA956036, AA859484, AA957864, AI009162, AI008809, AI013512, AA957926, AI028892, AA958015, AI043936, AA818778, D23247, AA900825, AA945198, AA697456, AA998854, AA799466, AA891156, AA956815, AA957706, AA893278, AA697455, AA818901, AA800853, AA851789, AA957936, AI009753, AI010105, AI012418, AA893449, C52353. AI046079, C83343, C82487, AI010496, W06499, AA697451, AI030918, AI012013. 25 AA944691, AI030612.

1/0

SEQ ID NO: 312

AF014890, AF014898, AF014888, X62996, AF014892, AF014891, AF014884, M10546, AF014889, AF014901, AF014882, J01415, V00662, X59268, AF014894, S75896, S75895, X93334, S73804, AF014895, D55239, D51981, D57451, D54971, AI028628, AA532797, D57566, AA508758, AA470370, D52491, F16554, F15674, F17184, F16407, AI015676, F18264, AA879019, F18249, AA464752, AA197149, AA783018, AA192604, D53377, AA534145, C04537, C05625, F22582, F15897, AA983610, AI024380, AA428850, AA876525, AA725126, C05532, AA512996, F17169, AA181000, AA897022, AA492256, D56728, F15522, AA595503, D58015, AA889892, AA514885, C05652, AA400809, AA453608, AA566006, AA580161, AA401126, F15604, F17980, AA595757, AA758834, AI031660, F16474, D29370, F16548, F16570, F17230, F16436, F18029, AA176484, AA216167, F16448, AA194421, U78174, F21967, AA214075, AA564658, AA576110, AA582805, AA551520, AI026683, AA886497, F16452, F17705, F15947, F18756, F16090, F17920, AA464751, F16744, AA523492, F16080, F15668, AA224754, AA579806, AA877931, D54713, F15788, AA554414, F16359, D29555, F22570, D56542, F16615, F15961, F15603, AA692320, AI035418.

SEQ ID NO: 313

M92377, M12922, AC002550, T95864, T64635, H80456, T50392, T95858, T07307, AA948672, F10380, AA694319, AA833739, AA977526, AA455988, R44944, R43657, 5--AA909207, T53866, R41594, AA672225, AA140149, AA497636, AA059664, AA432664, T14022, AA395920, N96191, R64959, N96178, N96220, N96016, T21803, T04517, AI044980, AA859624, AA392283, Z18075, T00507, AI008263, AA605761, C31573, M80149, D27641, Z37608, AA605525, C19110, AA186306, L33601, H31391.

10

SEQ-ID-NO: 314

S74340, AP000043, U82672, AP000002, U09422, M85225, D90905, AB009475, AL021332, Y11780, U08812, X90939, U49939, L15633, U07562, Z94801, AA659728, AA883923, D59334, AA918493, R39993, R73900, D53031, AA059363, AA166749, R43798, T10593, AA166776, T10567, W21931, T79096, R18629, W52470, N92193, AA829137, AA262975, AA461317, R31825, AA237325, AA408229, R75227, AA408228, AA967595, AA087123, W10172, AA111364, AA060895, AA963816, AA944459, AT000281, AA946310, AA264476, AA263328, AA893257, AA818058, AA946183, AA752837, AI010886.

20

SEQ ID NO: 315

U91319, L27090, Z98598, M97514, L22987, L28176, L22988, L22989, X74671, L33769, AJ002236, M33862, X59370, L27105, AA909943, AI018164, AA876117, AA761118, AA885370, AA830743, AA811540, AA732383, Z19362, AA994568, F05898, R33142, AA815140, Z45678, AA393239, H70916, R42609, W74150, W46431, W74157, AA811026, H12391, C16126, AA291279, H70913, AA553046, AA277240, AA390010, AA289068, AA066355, AA259657, AA880335, AA063857, AA203797, C77689, AI050209, AI026596, C52662, D33733, C93027, C57696, H33415, AA696819, C70316, AA858626, AA859618, AA113580, C62833, AI009444, AI050106, AA520381, C23420, AA875045, AA955156, N37856.

35 SEQ ID NO: 316

U56860, U00035, Z69251, AC003686, AC004774, AC002457, AC001527, L81869, Z82253, AL022101, AC002485, U39648, AC003085, Z74043, AL022104, X85105, Z70177, AC004227, AF002197, AC004478, Z71263, AC000378, Z82212, X67744, AA809784, AA412105, AA836191, AA827109, AA804427, AA814890, AA768944, AA354395, AA829438, AA828744, AA205333, AA782931, AA250965, AA251165, AA151555, AA256169, AA789094, T79588, AA426431, H79702, AA029448, R21432, X71647, AA512108, AA189682, AA739022, R04648, AA417407, AA851163, R03957, R05178, R03268, R03852, C25737, D33134, R03421, R03256, C34891, D37751, D72823, AA956678, AI007798, T39037, AA294340, AA898159, C61838, D69030, AA850706, D65552, C62006, AA29037, AA29037, AA29037, AA898159, C61838, D69030, AA850706, D65552, C62006, AA29037, AA

AA294340, AA898159, C61838, D69030, AA850706, D65552, C62086, AA851036, C52237, AA925983, C32833, AA294788, AI030007, AA998684, AI011286, AA800269, AI009727,

T21529, AA858451.

SEQ ID NO: 317

AC005270, X92100, X86090, AL009173, Z34288, X88851, U39676, AE000973, Z49348, AA319373, AA191069, T70737, AA084237, AA399386, AA793396, AA734139, AA049284, AA492788, AA717972, AA795229, AA176068, AA064579, AA497777, AA500252, Z26048, F19760, AA966157, D48474, D48185, AI043542, R04515, D70544, AA114331, AA720084, C94126, D34450, AA191793, C09440, C65405, AA851621, C65618, AI045939, C84167, D67435, D37078, D40007, Z17800, U44260, AA660209, C91194, AA908010.

SEQ ID NO: 318

U77706, U31961, L07835, L11172, AC003001, AC001047, AE000962, U32722, D63790, Z82976, Z95126, AA582177, AA779722, AA233016, AA228050, H27414, AA232702, H90472, C79289, C79397, AA175404, AA739332, AA185918, AA549313, AA175414, AA422545, AA240758, AA168536, AA221415, AA410095, AA237814, AA172709,

20 AA168456, AA266103, AA277270, C87523, AI047796, AA177380, AA267624, AA266985, AA170289, AA178542, AA217473, W18297, AA637914, AA996627, AA454427, AI044624, AA022362, AA042785, AA042284, AA549973.

25 SEQ ID NO: 319

1. 大湖南海流流流水水

1.114 2.5

AC005191, AC000022, AC004161, U67949, D32002, U48251, X80030, T34938, AA348735, T11294, AA496625, H11830, F11832, AA037681, T65508, AA011609, H71333, H15581, AA496503, C15755, D81192, D81591, AA234424, T83538, AA461155, AA025279, Z36730, D80564, AA234423, N26354, W00688, AA692746, U37159, C39409, C91297, AA799289, D68368, AI029040, AI007668, C08934, AI010541, AA850556, AA392473, H31325, D34571, AI043892, AA996460, AA946179.

35 SEQ ID NO: 320

AC004142, Z70750, AC004766, Z78416, Y13473, U80452, AF000299, U88173, AA702479, AA702790, AA825557, AI038962, AA505372, AI051720, AA505567, AA864908, AA505703, AA610492, AA505302, AI015179, AA704244, AA037682, AA664420, AA505301, AA147170, AA814618, AA321331, Z40775, T35671, H15525, AA011610, AA633691, H11751, AI025182, H11079, T65428, AA705344, F09480, AA811013, AA091593, AA938978, AA089924, AA722822, W32680, AI050875, H01026, W67301, AA890360, AA678583, R49664, AA815086, C16979, AA507270, AA558990, N70810, W80778, AA883720, AA790780, AA275189, AA600642, AA265030, AA259672, AA855284, AA866847, AA792675, W57074, AA096992, W81949, W75269, AA789988, AA259316, AA790623, AI021000, W57110, AA990198, AA067249, AA726260, AA537135, AA798563, AA755019, AA030169,

AA116306, C23464, AI012480, C23465, AA201498, AA802376, C91292, AA246870, C90701, AA963602, AA950424, AA956932.

- 5 - SEQ ID-NO: 321---

AE000658, U85195, AB009521, Z70288, M12922, T52127, AA325912, T95858, T64635, T07307, H80456, T95864, T50392, AA833739, AA977526, AA948672, T53866, AA029491, F10380, AA132333, AA455988, R41594, R43657, AA132348, R44944, AA909207, AA604310, D31584, AA673335, A1010367, AA5730011, AA673335, A1010367, A101036

10 AA694319, D31584, AA672225, AI019267, AA738911, AA467723, AA066186, C19110, Z37608, AA186306, AA392283, AA605525, C70333.

SEQ ID NO: 322

15

Z83836, M59371, Z69917, AC004768, Z75895, Z39710, H09245, R39824, F03749, AA493590, AA747004, AA411065, H83531, AA315999, AA437325, Z28508, AA583390, AA426377, AA252549, N76310, H78530, AA768319, AA822118, W66967, W62965, AA616290, AA839391, D19329, AA036227, AA185213, AA072651, AA072847, AA024238, AA244792, AA671995, AA415475, AA438233, W64263, AA097649, AA245717, AA000795, AA475421, AA072855, W99134, W61778, AA184000, W33766, AA185206, C78177, AA798172, AA863961, W81788, W53793, W62573, AA230836, AA466643, C78205, AA822043, AA086975, AA990223, AA655533, AI049173, AA790279, W97047, AA980600, W29472, AA752374, D41474, AA899904, C26152, T14820, AA818727, T14914, AA893758, T22262, AA817000, N65632, AA816371, Z29789, AA394995, AA816959, T46743, AA941188, AA950659, AA849737.

SEQ ID NO: 323

30

Y13472, AF012126, AF060181, AF035374, D63790, S53307, S53301, AL021713, Z98949, AF039713, M30114, D89168, U02512, M57504, AF060205, M69019, AF033029, D00863, U55369, M13655, AL021816, M57505, M11969, AL024485, Z82189, L13855, X03636, U02513, AA329832, T48184, AI028699, AA884702, AA091936, W38657, AA863120, R72495, AA486001, H91730, AA681096, AA793734, AA981374, AA675674, AA690226, AA981061, AA880265, AA437687, AA472881, AA437673, AA591866, AA792627, AA088934, AA073408, AA795731, C42637, C62662, L47042, AA787536, D22851, D15739, AA532235, AI026532, T43691, H98444, R29968, C27630.

SEQ ID NO: 324

40

AF060181, Y13472, AF012126, L28807, Z49809, Z98601, AF043695, X07891, AC001052, AC004445, AC004114, Y07564, AC004356, M22875, AC003945, AC001648, M22876, X05643, Z69666, AF009615, M38643, D31712, U35852, M22874, Z48444, AC005198, AA993582, AA282776, AI051311, AA767826, D11944, AA860937, AA629081, AA872477,

182

C14749, AA872945, AA251581, AA863063, AA452155, AA505638, AA251580, AA283078, C14507, C14328, C14354, AA663837, AA034499, AA135989, AA115537, N79268, N71855, D80504, AA370561, AA746706, D81220, AA370562, AA843321, W37572, R93033, H97032, N38781, AA514700, N57805, N30488, N62550, H69847, T07543, W69578, H71919, N77224, — 5— H44790, AA635156, AA704735, AA267676, AA161918, AA960263, AA798296, AI047555, AA254301, AA497406, AA497405, AA210440, AA051239, AA117254, AA137972, AA821741, AA851515, AA926013, AA950193, AA695692, C24325, AA394737, C93891, AA848449, C64092, AA943258, AA956886, AA851240, AA799762, AI007952, AA644744, AA882675, C61851, T36898, AA957795, AA818311, T38995, T36455, AA997643, AA945866, T37716, T36576, AA957887.

SEQ ID NO: 325

15 AC004593, Z74023, U38804, U01157, AE000786, L23503, U40800, L15310, U01104, U01156, U10037, H54643, AA583408, T81855, AA284449, H64839, AA620679, AA308833, N41694, N88993, AA476931, R23668, AA464631, AA429911, Z42049, AA429731, AA758195, C18973, AA426370, AA882202, AA220159, W75183, AA444418, AA106025, AA966943, AA271060, AA415968, W81742, AA717639, W17519, AA396328, AA619027, AA260833, AA718691, AA553021, AI037054, AA866815, AI036477, AA660619, Z97872, T43612, N99315, AA550217, AA892049, AA997375, AA901400, AA944313, D68989.

SEQ ID NO: 326

AC004593, Z74023, U38804, U01157, AE000786, L23503, U40800, L15310, U01104, U01156, U10037, H54643, AA583408, T81855, AA284449, H64839, AA620679, AA308833, N41694, N88993, AA476931, R23668, AA464631, AA429911, Z42049, AA429731, AA758195, C18973, AA426370, AA882202, AA220159, W75183, AA444418, AA106025, AA966943, AA271060, AA415968, W81742, AA717639, W17519, AA396328, AA619027, AA260833, AA718691, AA553021, AI037054, AA866815, AI036477, AA660619, Z97872, D68989, N99315, AA550217, AA892049, AA901400, AA997375, T43612, AA944313.

35 SEQ ID NO: 327

AF060181, Y13472, AF012126, AF035374, S53307, D63790, S53301, Z98949, U15304, M57504, M69019, U02513, M30114, AF033029, U02512, M13655, AL024485, Y10259, D89168, L13855, M11969, M57505, AL021816, X03636, AA329832, T48184, AA486001, AA091936, R72495, AA863120, AA793734, AA675674, AA681096, AA690226, AA981374, AA710968, AA880265, AA437673, AA437687, AA472881, AA088934, AA073408, C92164, L47042.

Y13472, AF012126, AF060181, L28807, Z49809, AF043695, X07891, AC001052, Z98601, M22874, AC004445, AC005198, AC004114, U35852, Z48444, AC001648, Y07564, AC003945, M22876, X05643, D31712, Z69666, AF009615, M22875, AC004356, M38643, AA282776, AA993582, AI051311, AA767826, AA860937, AA251581, D11944, AA629081, -5 — AA872477, C14749, AA872945, AA663837, AA863063, AA034499, AA452155, AA505638, N79268, AA251580, AA283078, C14507, C14328, C14354, AA115537, AA135989, N71855, D80504, D81220, AA746706, AA370561, AA370562, AA452383, N57805, N62550, AA843321, W37572, H97032, N30488, N38781, R93033, AA514700, AA091256, AA635156, AA704735, H69847, AI038776, T07543, T41024, N77224, AA267676, AA798296, AI047555, AA161918, AA960263, AA254301, AA210440, AA497405, AA497406, AA117254, AA051239, AA137972, AA821741, AA926013, AA851515, AA950193, AA695692, C93891, AA394737, AA957795, C61851, AA799762, AA943258, AA417542, AA644744, AA957887, AA848449, AA818311, AA997643, AA956886, AA882675, C64092, AI007952, AA851240.

15

SEQ ID NO: 329

M90309, M96256, M90820, D82876, M95123, U62545, AE000387, U83435, AC003982, U28379, Z81081, AC004309, M29192, U64849, U23170, U58751, Z79999, AA662136, AA626635, AA507452, AA805078, AI039677, AA745880, AA722415, AA133371, D56262, AA514235, AA425201, AA946647, AA830458, AA083192, AA207200, AA316768, AA180767, N63329, AA878427, AA934449, AA133184, AA402087, AA937256, D52197, AA687770, AA365011, AA083191, AA731077, AA196815, AA211880, AA305565, AA099456

医阿特里斯氏缝术 医二十二

Children Alexand

25

SEQ ID NO: 330

U06863, D89937, M91380, U06864, L10127, U86881, D80004, U60315, D90880, AE000337, X64696, M32756, M26950, AF033384, U23172, AC002326, AL008732, M30023, AL009031 AA545793, Z17837, AA853320, AA852349, AA853932, N86419, R57888, AA429966, AA044047, AA092160, AA346981, N85021, AA248133, AA368106, W22634, AA694482, AA770656, H86231, T78778, W03714, AA258169, AA565536, H56510, AA769400, AI035782, AA030804, AA033212, AA049640, AA734288, AA838966, AA734000, AA929708, AA939398, W71206, W39990, W39917, AI006564, W35012, AA985693, AA967387, W71004, AA143948, AA117341, AA170363, AA681172, W45885, W33683, AA036185, W77037, AA037985, AA259405, AA423660, AA289830, W70655, W65892, AA763976, AA563018, AA049849, AA286069, AA764370, AA014882, AA543854, C82438, C83294, AA495069, AA752205, L38123, D35571, D39195

40

SEQ ID NO: 333

U06863, D89937, M91380, U06864, L10127, D80004, U86881, U60315, X64696, D90880, AE000337, AL008732, M30023, AC002326, AL009031, AF033384, M32756, M26950

45

AA545793, AA853932, AA853320, N86419, AA852349, Z17837, R57888, AA429966,

AA368106, AA694482, AA770656, H56510, H86231, AA769400, AA258169

AI035782, AA030804, AA033212, AA049640, AA734288, AA838966, AA734000, W71206, AA929708, AI006564, AA939398, AA985693, AA967387, W71004, AA143948, AA162315, 5-AA562776, AA563168, AA874667, AA117341, AA855746, C82438, C83294, AA495069, D39195, L38123, D35571, KM252/T3,

SEQ ID NO.334

10

15

D89937, U06863, M91380, U06864, AE000337, D90880, X64696, AC002326, AL008732, AL009031, M32756, U23172, D89937, AA545793, Z17837, AA853320, AA852349, N86419, R57888, AA429966, AA044047, AA092160, AA346981, AA853932, N85021, AA248133, AA368106, W22634, AA694482, AA770656, H86231, T78778, W03714, AA565536, H56510, AA545793

SEQ ID NO.335

- Z68106, AC004770, Z75714, Z85994, AL021939, Z71260, U36840, Z82090, AJ224445, AE000348, D83479, U21323, Z68106, AA716497, H98974, AA703998, AA044900, AA044689, AA031932, AA491463, AA599783, AA032050, AA186359, AA173933, W446845, AA600033, H97601, W63570, AA627069, W72045, AA025046, AA548128, AA088246, C338 W58303, AA669937, W52070, H97416, AI041635, W52215, H97549, AA137262, W46845, AA602003, AA602004, AA602007, M76007, M76007
- 25 W92629, AA128494, AA026782, W76397, AA661793, W94840, N79437, W46494, AA595373, W78218, N23437, W94418, W46918, N34381, W46790, AA583657, AA599353, AA961557, W58194, N33105, W42793, W96120, H50538, W52141, W81572, AA593009, AA983246, H97340, AA147651, R95788, N67716, N58122, T47507, AI025353, AA888923, W96121, AA722567, AA788950, W74255, AA188212, R56693, AA987381, AA565505,
 - W51762, N70652, R87166, AA026781, T33491, W17326, AA501650, AA025047, R95744, AA903702, AA480682, R28503, AA664567, N73609, R39109, R07697, R87165, AA988438, N44927, AA666225, AA886647, AA599854, T62853, T90854, AA987862, AA853933, AA853321, R83373, C00827, AA716497.

35

SEQ ID NO.336

AF012072, Z34918, AC004016, AC004400, L06314, AC004476, U59229, U23179, AF025311, AF012759, U95072, D88752, AF012072, W28058, N42333, AA678083, AA632361, W87293, AA700969, AA580406, AA428666, AA604561, W01955, AA574373, AA678193, W28058.

SEQ ID NO.337

45 AF012072, U04282, U93694, AJ229042, AF051934, AL010167, AL008970, AF005680, X56564, Z81472, Z48717, AF005697, AF014948, AC004414, AF005683, AF005681, U04280.

AF005674, Z83838, AF039057, Z74071, Z74072, AF007943, AF005679, AF005670, Z48432, AF005669, AF005673, AF005694, AF005675, AF005682, L12722, U62943, L05514, AF029791, L04132, Z99281, U41624, AC004016, AF005672, Z72831, AC005212, AC002465, U65590, Z75714, U29157, AC002541, U88173, AB008681, AE001040, AF005671, AF005678, -5--AF005684,-AF005685,-AC004238,-AL021180,-Z72518,-U88166,-AF012072,-AA425182, N34551, AA457547, AA903329, AI017135, AA937078, H89366, N34541, AA490854, H99291, N75058, AA457747, D59286, D62357, H89553, D62145, AA526320, N66282, N29478, AA609043, AI014367, N92469, W79550, AA665666, R50684, N25822, C21162, AA468635, N44557, N95594, AA147928, AA491894, AA960937, AA528395, AA083916, AA777212, W25684, W69189, AA013334, AA918317, H06933, AI000693, AA705169, W88709, R42683, 10 -W69134, AA306914, AI017605, -AA425182,

SEQ ID NO.338

15

M90820, M90309, M96256, M95123, D82876, U62545, AC003982, U64849, U23170, U97592, AC004099, U58751, M29192, M90820, D56262, AA662136, AA316768, AA180767, D52197, AA196815, AA083191, AA305565, AA099456, AA211880, AA425201, AA374550, D54751, AA904934, AA301380, H16000, AA304018, AA330777, AA661783, C03243, AA083192, N88739, AA830458, AA662099, AA091762, AA910956, AA626635, AA358517, AA507452, T23842, AI039677, AA722415, AA805078, AA745880, AA133184, AA514235, AA133371, AA934449, AA207200, AA652387, AA946647, AA687770, AA365011, N63329, AA757083, AA709130, H42504, AA856607, AI015577, AA287349, H80862, AA701928, AA815104, N29511, W46860, AA929000, AA937256, T78553, F11745, R88938, H52017, AA456142, 25 T87832, AA431044, AA189120, T28999, AA007693, AA215302, AA436121, AA446826, R52744, AA040668, R20592, R60482, H18710, Z45180, T95232, R79671, T33317, H43493, AA219658, AA430392, AA631802, AI040805, T09413, T33924, H05237, AA768012, D56262.

30 SEQ ID NO.339

M90309, M96256, M90820, D82876, M95123, U62545, AE000387, U83435, Z81081, U28379, AC004309, Z79999, M90309, AA662136, AA626635, AA507452, AA805078, AI039677, AA745880, AA722415, AA133371, AA514235, AA425201, AA946647, AA830458, AA083192, AA207200, N63329, AA878427, AA934449, AA133184, AA402087, AA937256, AA687770, AA365011, AA731077, AA515865, AA910956, AA180767, W67861, AA301380, D56262, AA182893, AA330777, AA358517, AA661783, W67804, AA652387, AA316768, AA523222, AA541535, AA305565, D57347, AA662099, AA904934, H16000, AA211880, AA083191, AA196815, D52197, AA099456, AA091762, AA886161, AA876833, AA928813, AA512845, AA374550, D54751, AA304018, AA809606, AA836660, T23842, C03243, AA709130, AI023221, AA287349, N29511, AI015577, H80862, AA701928, AA815104, W46860, AA856607, AA929000, W89194, AA446792, T61548, AA913564, AA828597, AA662136.

X59417, X61972, D10755, AF056191, Z72533, S58126, M55440, M63641, M22647, AC003026, L11235, D82813, Z68870, D82812, X59417, AA029397, AA837580, W23501, AA890064, AA488257, AA632149, AA703270, AA890484, W53005, AA716489, AA446816, W44361, AA316602, AA843688, W20013, W52807, W44618, AA526876, W39027, W49827, S-W60039, AA315539, W38864, W40517, AA583625, W17240, W67897, W03417, AA126319, AA772085, W32916, AA315426, W19376, W46657, AA860293, W31060, W94046, W37276, AI024374, W77914, AA523299, W24607, AA044357, W40204, AA505371, AI034269, AA448491, AA844258, AI041663, N50564, AA807830, R52324, W47241, N29205, W00352, H21413, AI014835, AA716549, AA861938, AA612828, T29583, AA045467, AA329485, AA661664, W94047, AA372064, T89588, AA044173, AA863108, AA488200, N93220, AA570625, AA612774, AA716138, T95448, AI052107, AA916452, AA861538, AI032881, AA722960, AA652222, AA946746, W53006, AA860602, N50621, H06545, AA973433, AA164391, AA301799, AI026047, AA843370, AA706945, AA229044, N50137, W44599, W05095, AA724169, AA989387, AA353184, AA916455, AA029397.

15

SEQ ID NO.341

X59417, X61972, D10755, AF056191, Z81009, Z73362, Z68870, AC003026, X59417,

20

AA837580, AA890484, AA703270, AA632149, AA843688, AA716489, AA890064, AI024374, AA523299, AA505371, AA448491, AI041663, AA772085, AI034269, N50564, AA807830, AA844258, AA860293, AI014835, AA045467, AA861938, AA661664, AA612828, AA044173, AA863108, AA488200, AA570625, AA716138, AI052107, AA861538, AA722960, W94047, AA612774, AI032881, W53006, AA946746, AA843370, AA229044, AI026047, N50137, AA973433, W44599, AA716549, AA860602, AA916452, W77914, AA894692, AA989387, AA706945, AA724169, AA860981, AA693427, AA916455, AA652222, W49827, N67814, AA126319, AA026136, N89757, AA693799, AI001105, AA782177, AA035351, W60039, W67694, W47125, AI026764, N93152, H97527, AA757013, N91597, H21372, AA643395, W51997, AA630959, N93220, AA164392, AA128178, AA047319, N94909, W42460, W35352, N91371, AA903675, N99937, AA158100, W46622, N72079, AA029397, W45714, AA720990, AA483762, H06487, W72155, W37789, AA903194, AA872269, AA005388, R52084, T92259, AA837580.

35

SEQ ID NO.342

Z68106, Z75714, Z85994, U21323, U36840, AE000348, AF045646, Z68106, AA491463, AA599783, AA031932, AA600033, AA703998, AA044900, AA669937, AA548128, H98974, AA173933, AI041635, H97549, AA627069, AA186359, AA716497, H97601, AA137262, W72045, AA026782, W46845, AA088246, AA661793, W94840, N79437, W46494, AA595373, W78218, N23437, W92629, W94418, N34381, W46790, AA583657, AA599353, AA961557, W58194, N33105, AA044689, W42793, W96120, H97416, H50538, W52141, W81572, AA593009, AA983246, H97340, AA147651, N67716, T47507, AI025353, N58122, W96121, AA888923, AA032050, AA722567, AA788950, W74255, AA565505, AA987381, W51762, N70652, R87166, T33491, AA903702, AA480682, W46918, AA025047, R95744,

W58303, AA988438, AA664567, N73609, AA599854, R39109, AA666225, AA886647, AA853933, AA853321, W76397, T90854, R56693, AA987862, AA599400, T62853, C00827, R83373, N94338, Z38867, W52215, T54372, N29399, W63570, AA025046, H14477, AA719902, N68056, AA022992, R96871, R56849, AA491463.

SEQ ID NO.350

AE000046, AE000035, U35013, AE000036, AE000004, AC003080, AP000034, U09871, Z70691, Z54140, U26310, AF029304, U93196, Z75746, Z75893, AE000054, U49830, AC003676, AC003043, AL021469, AF064860, Z36753, AF043105, M34482, AE000002, U63312, AF016414, AB010068, AF036444, AE001117, X82684, Z66497, U97003, L08380, AL008971, U80028, U10414, M81689, Z11115, L09750, AE000550, AC002456, Z68120, Z66514, U97190, AC004644, Z54236, AC002341, AB015477, M29154, U40423, U41748, M81688, X56851, AB008264, AL021480, AC000076, Z37964, U10402, Z48007, AA527268, AA780210, AA431793, N28891, W74607, AA004205, N25768, AA643184, AA630321, AA216596, AA854206, AI038928, W45570, AA811726, AA001737, AI027706, N30763, AA603729, W90372, AA610141, W92013, AA535623, AA148861, H97575, AA114952, AA490320, W94384, AA424324, H49322, W68201, AA678487, AA214609, W04711, AA486288, AA165561, N73273, W02793, N67842, AA864358, AI034146, W30934, AA953621, W15581, W68202, H49323, AA693353, AA648400, AA971954, H97860, 20 AA205308, H44141, AA766793, N20849, AA804853, AA485269, AI004353, AA433927, N62700, AA825778, AA114829, W31657, AA216543, AA007422, H10401, AA552090, AA579359, T97120, R82009, H01442, H69533, AA025477, AA779558, AA318373, AA025477, AA779558, AA025477, AA77958, AA025477, AA77958, AA025477, AA0254 AA430583, D78892, AA702752, W67753, R22948, T35994, AA329745, AA774128, T97005, D7389204. R82061, R81522, AA996354, AA775160, H48804, R34243, Z28536, W90371, H44062, C. R82522, WASSELD, WASSEL 25 AA025396, Z19475, H48810, AA513115, R62712, AA287628, C02732, AA777768, AA628646, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA560406, AA822900, AA079914, AA561771, AA254405, AA097088, AA822893, AA444663, AA200448, AA623299, AA863792, AA183321, D18314, AA472424, AA396152, AA960524, AA790566, AA560556, AA116991, AA690917, AA690993, AA170629, AA270487, AA688806, W36441, W71565, AA756480, AA690916, AA288151, AA414642, AA718602, AA162299, AA538093, AA619931, AA718699, AA268163, AA980553, AA545942, AA624507, AA855805, AA849531, AA848917, AA957315, AI009528, C06826, D39911, AA605573, C32716, D22377, Z18210, C23790, AA899962, AA802377, AA438451, C84183, C90994, C92834, C93176, C89903, AA051845, T00553, AA943491, AA945230, AA946005, AA900113, AA161699, AI012441, C62969, W63171, AI010024, C25562, AA942692, AA997400, AA676066, AA850803, AA996844, AI044720, W06489, AI045785, AA964776, C36068, C54452, C54804, C94217, AA440498, H33868, AA850398, AA890788, AA990991, N55612, C90271, AA898115, D73182, AA202444, AA964855, AA712502, AA925965, AA550648, AA800209, T02433, AA925071, AA842873, AA957108, AA996923,

SEQ ID NO.351

AI037825, W63192, AI030173, AA924397, AA997195, N96377.

7.30

- Albandii .

AA780210, AA431793, W74607, AA004205, AA643184, N25768, AA214609, AA811726, AA630321, AA216596, AA854206, AA971954, AI038928, AA535623, AA114952, H49322, W45570, N30763, AA001737, AI027706, AA603729, W68201, W94384, H44141, AA610141, AA216543, AA148861, W90372, W31657, AA490320, AA025477, W30934, AA424324, 5-T97120, W92013, AA486288, H97575, W04711, AA678487, W02793, AA864358, AA953621, AA165561, AI034146, N73273, D78892, N67842, AA433927, AA648400, AA693353. AA825778, AA205308, AA804853, T35994, R82009, AI004353, AA485269, AA329745, AA766793, H49323, W15581, AA114829, W68202, H97860, N20849, AA579359, AA552090, AA007422, AA318373, AA430583, W67753, AA775160, AA702752, H10401, H01442, W90371, AA779558, R22948, Z19475, H69533, AA996354, R82061, AA025396, H44062, C02732, R34243, H48810, R62712, R81522, AA774128, Z28536, N62700, H48804, T97005, AA007407, AA287628, AA628646, AA777768, AA466843, AA608178, AA200267, AA175464, AA611918, AA396402, AA560406, AA097088, AA822900, AA254405. AA561771, AA079914, AA472424, AA444663, AA855805, W71565, AA268163, AA623299, AA162299, AA718602, AA718699, AA560556, AA545942, AA624507, AA688806, AA270487, AA849531, AA848917, AA957315, AI009528, D39911, D22377, AA712502, W06489.

SEQ ID NO.354 20

AE000046, AP000034, AE000004, AC003080, U35013, AE000035, AE000036, Z70691, U09871, U26310, Z75746, Z75893, U93196, AE000002, X87102, U49830, Z68751, AB005234, AC003676, AF043105, Z36753, AE000054, AF064860, AL021469, M34482, AC004644, Second Sec 25 U40423, AE000550, AL008971, AC004564, AC002341, AB010068, Z37964, M81689 U97003, Z68120, Z48007, AB008264, AC002066, AB015477, AF016414, U10402, L09750, U80028, U00040, U41748, AL021480, AE001117, Z11115, X82684, Z66497, AF036444, U10414, X56851, AB012248, M29154, M81688, U97190, Z54236, AA527268, AA780210, AA431793, W74607, AA004205, AA643184, N25768, AA630321, AA854206, AA216596. N28891, AI038928, W45570, AA811726, AA001737, AI027706, N30763, AA603729, W90372, AA610141, W92013, AA535623, AA148861, H97575, AA490320, AA424324, W94384, AA678487, W04711, H49322, AA486288, AA165561, W68201, W02793, N73273, N67842, AA864358, AA214609, AI034146, AA114952, AA953621, W68202, W15581, W30934, H49323, AA693353, AA648400, H97860, AA205308, AA766793, N20849. AA804853, H44141, AA485269, AI004353, AA433927, N62700, AA971954, AA825778, 35 AA114829, AA007422, H10401, AA552090, AA579359, H01442, R82009, W31657, H69533. AA216543, AA779558, AA318373, AA430583, AA702752, W67753, T97120, R22948. AA329745, AA774128, T97005, AA025477, R82061, R81522, AA996354, AA775160, H48804, D78892, R34243, T35994, Z28536, AA025396, H44062, H48810, AA513115, AA287628, W90371, C02732, AA777768, Z19475, AA628646, R62712, AA175464. AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406, AA822900, AA254405, AA097088, AA561771, AA822893, AA623299, AA444663, AA164111, AA200448, AA960524, AA396152, AA863792, D18314, AA790566, AA183321, AA560556, AA116991, AA472424, AA162299, AA619931, AA538093, AA718602. AA980553, AA545942, AA624507, AA170629, AA688806, AA690917, AA690993,

AA756480, W36441, AA270487, AA855805, W71565, AA268163, AA414642, AA690916.

AA718699, AA288151, AA849531, AA848917, AA957315, AI009528, C32716, C23790, AA605573, Z18210, D22377, D39911, AA899962, AA945230, C92834, C93176, C90994, AA698574, AA438451, C89903, AA943491, C84183, AA051845.

SEQ ID NO.352

M60558, AB006706, AP000021, D90716, AC005142, D87872, AE000181, W31813, W03446, AA318031, AA011499, H69988, AA329851, AA206741, AA045969, AA330339, AA148860, H48619, H48612, AA045835, AA348162, AA336381, AA337762, AA134434, AA917730, D52988, C17881, AA094788, AA489309, AA354856, Z19998, D56210, AA527916, AA011500, AA182437, AA320171, T53273, AA155839, H22733, AA809519, H44710, AA085882, AA358978, AA366689, AA188322, W45747, W97332, AA896228, AA789939, AA727854, AA059823, AA140441, AA032863, AA760526, AA726236, AA791055, AA666667, AA096662, AA799210, AA166173, AA881031, AA726992, W07991, AA122715, AA117586, AA472537, AA388943, AA691105, AA432531, AA667224, AA500919, AA667205, AA562830, AA894335, Z81222, X93228, AA676087, AA944617, AA202573, C93776, AA583103, AA965140, AA951463, C65935, AA191869, AA842460, C08849, M89450, D73949, D74916, D75318, T01841, N21886, Z81288, AA451560, N69725, AI035168, M75876, AA651575, AA451561, T01140.

TO PRODUCE WAS TO SE

SEQ ID NO.359

10 1 M. M. M. M.

11. N. .

AF027390, M55673, U28686, U70857, U91322, AC004525, U67212, AF067216, U95982, AF067611, Z73905, U13070, AA002081, AA113127, AA831044, AA002245, AA805579, AA767554, W91985, AA430583, AA740770, W91964, AA768675, AA433927, N68306, AA765872, AA004288, AA113840, AA705271, R62689, R36350, AA085427, AA307902, H00486, AA356897, W37253, AA313689, AA001622, AA054406, AA305641, N70479, AA306222, AA345397, T78803, AA325775, AA143762, T72106, AA076252, T55643, AA092407, AA192462, AA177031, AA679532, H13332, H17712, H16930, AA305815, AA004369, AA015827, AA705484, F11875, AA811088, AA001908, AA057226, AA790191, AA105116, AA790153, AI006318, AA472674, AI046894, AA983116, AA414094, AA589062, AA619440, AA238985, AA939578, AA672120, AA152861, AA547630, AA027542, AI021034, AA139951, D76727, AA501231, AA869414, W09603, AA687033, AA686313, AA736059, C93720, AA990781, AA686756, AA820697, AA140709, AA538976, AA263759, C91205, H74821, AA897979, AA660309, C93846, T20905, C93938, D27073, Z37604, AA926472, C94646, AA660648, AA952542, X73736, AA470322, D66007, C54318.

SEQ ID NO.353

40

45

AE000036, AC003080, U35013, AE000004, AE000035, AE000046, AP000034, Z70691, U09871, U26310, Z75746, U93196, Z75893, M34482, AE000002, AL021469, Z36753, AF043105, Y10196, AC003676, Z75529, AF064860, M12582, D10685, AE000054, U49830,

X54116, X82684, Z84814, AB010068, U10414, U97003, M81688, M81689, Z54236, Z48007,

L09750, M86526, Z66514, U10402, AF016414, U97190, Z68120, AE000550, AL008971, M29154, X56851, U40423, D86251, Z83233, U41748, U80028, AC004644, AC002341, AL021480, AC000076, AF036444, Z66497, Z11115, AB008264, AE001117, Z37964, AA527268, AA431793, AA780210, W74607, AA004205, N25768, AA630321, AA854206, -AA643184, AA216596, AI038928, W45570, AA811726, AA001737, AI027706, N30763, W90372, AA603729, N28891, AA610141, W92013, AA148861, H97575, AA535623, AA490320, W94384, W68201, W04711, H49322, AA424324, AA486288, AA678487, N73273, W02793, AA165561, AA864358, N67842, AA214609, W30934, AA953621, AI034146. W68202, W15581, AA693353, H49323, AA205308, AA648400, H97860, H44141, N20849, AA433927, AA766793, AA485269, AI004353, AA804853, AA971954, AA825778, N62700, AA114829, AA114952, AA007422, AA552090, H10401, AA579359, R82009, H01442, H69533, AA702752, AA318373, AA430583, AA779558, W67753, R22948, AA329745. AA774128, T97005, R82061, R81522, AA996354, AA775160, W31657, H48804, AA216543, R34243, AA025477, Z28536, H48810, AA513115, H44062, T97120, AA025396, AA287628, C02732, AA777768, AA628646, D78892, T35994, W90371, Z19475, R58722, AA175464. AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406, AA561771, AA822900, AA200448, AA623299, AA444663, AA254405, AA097088, AA560556, D18314, AA183321, AA396152, AA863792, AA472424, AA960524, AA116991. AA790566, AA624507, AA690917, AA690993, AA170629, AA688806, AA980553. AA855805, W36441, W71565, AA268163, AA270487, AA690916, AA414642, AA718602, AA162299, AA288151, AA538093, AA756480, AA619931, AA718699, AA545942. AA849531, AA848917, AA957315, AI009528, D22377, AA605573, C23790, D39911, Z18210, C32716, C84183, C90994, AA051845, AA438451, C92834, AA943491, AA899962, C93176, AA945230, C89903.

SEQ ID NO.355

25

AE000035, U35013, AE000004, AC003080, AE000046, AP000034, AE000036, Z70691. U09871, Z75893, Z75746, U93196, AL021469, AL009029, AC003676, U49830, AF064860, AC003043, Y10196, AE000054, AE000002, M34482, Z36753, AC002287, AF043105, Z68751, M81689, U80028, U41748, M81688, AC000076, AE001117, AB008264, Z11115, AF036444, Z37964, X82684, Z66497, U40423, AC004135, AE000550, U97003, Z98753, Z66514, U10402, AC004644, Z68120, AL008971, AC002341, AF016414, Z54236, U80843, L09750, AL021480, U10414, AC002066, U97190, Z48007, AC003998, M29154, X56851, AA527268, AA780210, AA431793, W74607, AA004205, N25768, AA630321, AA643184, AA854206, AA216596, AI038928, W45570, AA811726, AA001737, N28891, AI027706, N30763, W90372, AA603729, AA610141, AA535623, W92013, AA148861, H97575, AA490320, W94384, AA424324, AA678487, W68201, W04711, H49322, AA486288, N73273, W02793, AA165561, AA214609, N67842, AA864358, W30934, AI034146, AA953621, W68202, W15581, AA693353, H49323, AA205308, AA648400, H97860, AA114952, AA433927, H44141, N20849, AA766793, AA485269, AA971954, AI004353, AA804853, AA825778, N62700. AA114829, AA007422, AA552090, H10401, AA579359, R82009, H01442, H69533, AA318373, AA430583, AA779558, AA702752, AA329745, W67753, W31657, R22948, AA774128, AA216543, AA996354, T97005, R82061, R81522, AA025477, AA775160. T97120, H48804, R34243, Z28536, AA025396, H48810, AA513115, H44062, D78892,

TO THE BUTCH STATES OF THE STA

T35994, AA287628, C02732, AA777768, AA628646, W90371, Z19475, R58722, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406, AA822900, AA254405, AA097088, AA561771, AA200448, AA183321, AA960524, AA396152, D18314, AA472424, AA116991, AA560556, AA790566, AA170629, AA162299, --5 -- AA270487, AA855805, AA414642, W71565, AA268163, AA690916, AA444811, AA718699, AA718602, AA980553, AA688806, AA545942, AA619931, AA624507, AA756480, AA690917, AA690993, AA183584, AA277326, AA286405, AA863529, AA880395, AA983023, AA048938, AA759545, W36441, AA208995, AA274576, AA623299, AA798564, AA547224, AA168386, AA198582, AA444663, AA106584, AA958885, AA840456, AA546863, AA896177, AA162089, AA245968, AA416281, AA474849, AA155555, AA759392, AA849531, AA848917, AA957315, AI009528, AA605573, C23790, C32716, C90994, AA899962, AA943491, C84183, C89903, AA051845, C92834, C93176, AA945230, AA957108, W63192, AA925965, C94217, C54452, C54804, W63171, D39911, AA996923, AA924397, AA900113, AA161607, AI012441, AI045785, AA942692, D73182, C36068, W06489, AA161699, AA550648, N96377, D22377, AA712502, AA898115, AA842873, C25562, AA997400, AA202444, T02433.

SEQ ID NO.356

20 AF051882, AF037335, AL020992, M99416, X14520, D87664, AC002531, X53815, AE000006, AC000077, M76611, D00814, L23176, AL021768, AC004457, X03674, AF068865, L02537, AL010259, X90947, AA642981, AA458937, AA236101, AA889703, T57200, AA653968, W49620, AA593002, AA725435, AA027201, AA084808, AA903402, T55953, AA235819, AA084808 AA084809, H62064, AA027200, W48794, H61158, AA399478, AA293409, AA676879, AA121077, H45963, AA459151, AA454941, E12881, T75179, AA151754, H17823, T90533, AA5763, A R69560, H03207, AA854346, AA083102, AA433953, AA453877, AA453793, F02019, D52307, AA292162, AA984316, H61258, AA812708, W92032, AA600088, T96124, AA127633, AA845619, H61254, AI023077, W31457, AA452311, N59208, N47490, AA292062, N24598, R42888, AA843088, AA594908, AA977276, N53479, Z38999, T32381, W92031, AA446638, T03367, D55029, AA761261, AA856358, AA929411, AA509752, AA003370, AA637345, AA718711, AA212242, AA184206, AA606789, W11129, AA052492, AA089155, AA656802, AA867237, AA277010, W70784, AA277035, W53759, AA964553, AA963531, C22771, AA978729, T24128. 35

Have Birth

SEQ ID NO.357

AF051882, AF037335, AL021768, X14520, X53815, X03674, L02537, AC004457, AL010259, D00814, M76611, M99416, AC000077, D87664, AA236101, AA642981, AA084808, T55953, W48794, H62064, AA458937, T57200, AA027200, AA676879, AA653968, AA889703, AA121077, W49620, AA593002, H45963, AA725435, AA459151, AA027201, AA903402, H61158, AA235819, AA084809, T75179, F12881, AA293409, AA151754, D52307, AA127633, F02019, N47490, AA452311, AA761261, AA977276, W31457, AA843088, H03207, D55029, N24598, AA594908, T32381, AA812708, N53479, AA446638, W92031, Z38999, AA854346, T03367, N59208, AA433953, AA453877, AA083102, AA453793,

AA845619, H61258, H61254, AA984316, AA292062, T96124, AI023077, AA600088, W92032, AA292162, AA856358, AA929411, AA509752, AA637345, AA003370, AA718711, AA212242, W11129, AA089155, AA052492, AA277010, AA184206, W70784, AA103584, AA656802, AA277035, AA644832, AA117871, AA832587, AA727479, AA003900, -5 AA049014, AA461759, AA009086, AA821436, W08251, W67029, AA237501, AA990551, AA615815, AA466218, AA968230, AA895501, W35974, AA080240, AA444348, AA119315, AA562230, AA615358, AA672796, AA855999, AA032887, AA030783, AA727629, AA562528, AA560856, AA105077, AA221346, D21560, AI021598, AA221474, C76042, AA399724, AA266701, C80733, W97848, AA869353, AA856003, AA562930, AA408977, AA072921, AA986604, AA964553, T24128, AA978729, C22771, AA963531, AA618677, C70539, AA882818, M89085, C19540.

SEQ ID NO.358

15

AL020992, AC004457, X53815, D87664, M99416, AC000077, X03674, X14520, L23176, M76611, L02537, AL010259, X90947, D00814, AF068865, D84102, AE000006, AL021768, AA642981, AA458937, AA889703, T57200, AA653968, W49620, AA593002, AA725435, AA027201, AA903402, T55953, AA235819, AA084809, H62064, H61158, AA027200,

- AA084808, AA399478, AA293409, AA236101, AA676879, AA454941, W48794, T90533, H17823, R42888, R69560, AA083102, AA984316, AA446638, AA929411, AA509752, AA718711, AA637345, AA212242, AA856358, AA184206, AA606789, AA052492, AA277010, AA277035, W53759, AA867237, AA656802, W70784, AA869353, AA072921, AA107134, AA080240, D21560, W67029, AA049014, W35974, AA266701, AA560856
- 25 AI021598, AA968230, AA832587, AA117871, AA895501, AA615815, AA644832, AA221474, AA032887, AA681567, AA030783, AA221346, AA444348, AA964553, AA963531, C22771, AA786747, AA882818, AA618677, C70539, M89085.

30 SEQ ID NO.414

SEQ ID NO.415

40 SEQ ID NO.425

U65403, Z80216, AE000085, AJ001073, M22382, U65012, U68562, U18796, M34664, AF055066, AB012246, J03526, AE001119, X53585, U39678, X76381, X54793, M22383, — U67571, AC002332, AA693933, AA721028, AA931296, R17072, AA677155, AA256862, AA639733, AA330429, AA329760, AA329619, AA857474, AA315609, N51133, T73002,

T50017, N28647, AA630706, N48489, W56471, R88588, AA054158, AA465576, N40395, AA733082, W81268, H64434, AA497682, AI006249, AI006553, AA793856, AA080715, U83072, T38855, AA680838, C34525, AA585543, AA433185, C36942, D68814, C35667, C82456, C07307, T01513, C67256, C83312, C38834, C63938, C39559, C36768.

SEQ ID NO.426

AL022717, AL021811, AJ229043, AE000663, M14954, AF015262, U64875, AL008721, 10 U67598, AC002038, L32025, AC004260, AF005273, AA465221, W56471, N48489, AA761570, N46857, AA962609, AA815408, AA916501, H71811, AA777308, AA766065, N40451, F04649, Z40509, R81713, R10095, AA465576, R81712, R69729, AI026098, AA640995, AA887050, AA428757, AA827684, R26595, AA425850, N51765, H61767, AA634168, AA772970, AA913803, AI000803, AA683016, AA131534, AA326555, AA360932, AA657785, AA808668, M79127, AA184065, AA142531, AA118014, AA266514, AA789837, AA793335, AA450792, AA816226, AA475628, AA571566, AA124474, AA980923, W87182, AA881077, AA796110, AA183820, AA546029, AA387073, AI047064, AI006095, AA856530, AA545027, AA212706, AA562843, AA238214, AA200973, AA155378, W57254, W10715, AA467376, AA415438, AA462041, AA154951, AA014633, AA549692, AA925969, C67346, D48653, D49223, AA998726, C71094, AA753088, C19153, D21978, D48703, AA956540, AA943103, C19196, C63639, M89370, D69496, C44629, C66412, AA964139, C73805, C71359, AA508944, AA801919, D27410, AA799424, F19870, D39451, D70177, D70637, C49979, N97760, AA875677. "空間報"。**30:30:39**第2017年

A MANAGRAMAN.

激烈的事故,对是 医胚 知识

and he had to be the state of t

SEQ ID NO.427

WARE ALL BRISDLAND

25年 公司 1957年

Z84480, AC004022, AL022097, AP000040, AC005192, AP000049, AL022162, AC003103, AC000120, Z73358, AC004672, Z84486, AL021328, AC003982, AC002449, AC000114, AC002453, AC003100, Z97987, Z84572, AC004583, AC004016, AC004025, AL020997, AC002331, AC004457, Z81369, U66061, AF029308, AL023280, AC004021, J02758, X13368, M14642, AC005217, AC004659, X69907, U82207, X78901, AL022170, Z82206, AC003085, AC004777, AC003958, AL021368, AF015723, AF020533, AC003064, U84404, AJ229042, AC000118, AL023495, X55448, AC002461, K01100, AC005191, AC004099, L44140, AC004001, AC002538, AC000060, Z97206, U91325, Z76735, U85195, AC004644, D14458, U89338, AF052440, U52389, U52392, U52403, U52413, U52419, U52422, AC003662, AE000658, AF045555, AC004259, X03700, X15062, U21056, U17066, U17067, U21055, L06480, U54798, AC004650, AF052437, Z98866, AF052438, AF052439, AF052444, AC000119, AF052445, AF052446, AC002463, U16853, Z75890, AA468564, H95789, AA114285, R13106, R97714, AA526979, D44781, T03700, AA565720, W86423, H89240, AA883940, AA662792, H89241, N92085, AA894448, T97074, H84885, R70468, AA024980, AA644290, AA046291, AA555286, AA021624, AA429437, AA232884, AA232814, AA824487, T85108, T86598, N59886, W39204, AA983814, T77523, AA191084, AA729894, N32666, T06045, AA513733, AA808122, R77513, AA628885, AA861696, R70016, N29731, AA011693, AA564509, AA768393, AA652996, AA034946, W02335, AA250734, AA775632,

R92002, AA877400, R27392, N75988, AA580437, AI034439, AA454158, AA483165,

AA487178, H39064, N34333, AA528493, AA644333, AA946594, AA535808, AA579568, AA487237, AI052491, W56706, N20836, AA970907, T28195, H98966, AA702751, R42384, AA707033, AA059119, AA781354, H96596, AI042594, R25619, AA910650, AA577719, N89742, AA025543, R36643, AA844004, AA160328, AA677260, AA568316, AA995622, -5 AA410187, AA477759, R42385, AA402512, AA172841, AA051594, AA671405, AA874518, D18938, AA516885, AA184252, AA673371, AA863812, AA521783, AA139062, AA881322, AA940092, AA116840, AA624257, AA684270, W81853, AA265929, AA068002, AA518171, AA795164, AA607854, W58777, AA915735, AA647218, AA474510, AA544194, AA068865, AA920031, AI047267, AA624337, W10596, C88483, R75374, AA990134, C76732, C87167, AA839745, AA266035, AA711617, AA734421, AA771132, W64885, AA023551, AA142663, AA763672, AA049838, AA105882, AA537298, AA655975, AA739383, C80502, AA049860, AA144324, W36027, AA244515, AA474770, AA272905, AA145225, AA546326, AA616328, AA155394, W97483, AA184030, AA596627, AA038973, AA189403, AA562135, C77306, AA492720, AA124557, AA793960, AA797524, AA123777, AA245198, AA560849, AA710704, AA177451, AA210094, AA763466, AA824021, AA871898, AI048396, AA270414, AA511147, AA562372, AA798102, AA986708, AI005940, AA220647, AA118264, AI020673, AA561337, C94869, AI009414, AI013223, AI012125, AA943390, AA944321, AA942703, AA899245, AI013420, AA901332, AA893971, AI011398, AA943299, AA901199, AI029767, AI045608, AA945726, C94140, AA942809, AA963781, AA849113, AA945912, C84887, H32868, C93814, C94232, C91158, AA441733, C92478, AA860057, C91087, AA786257, AI013512, N97924, C94355, C22923, C24350, C94364, C91272, C92370, C23641, AA955618, AI026572, T09923, C89665, D43589, C94014, AI029028, AI031009, AA899734, AA202852, AA819535, AA892825, D72816, AA859452, AA858662, AA955262, AA550431, C89830, C92314, AA891494, AA894318, C92964, AI031055, H34256, AA946253, C29337, C31762, AA900825, AA925250, AA964227, AI010870, AI045220, H35668, AA818136, AA875122, AA540046, C88358, AA612557, AA900141, AA926409, AA998321, AI008211, AI044633, AA818611, C36818, C92593, AA957493, AI045062, C25711, C83829, AA848939, AA851997.

30 SEQ ID NO.428

AL022097, AF003530, AC000113, AC001051, AC003675, Z85995, Z84816, AC002056, AC004074, Z98255, AC002511, Z84720, AC004384, AC000055, AC004129, AL022170, AC004587, AC002091, AF039718, AC003005, Z81457, AL022393, Z99497, AC004415,

- AL009051, AC000116, AC004076, Z69943, AC005144, AC003091, AJ229041, AF020802, Z82200, AC002523, AC002083, U11682, AC002081, Z95559, AL021786, AC005176, AC004225, AC004741, AC004385, AC003925, AC002084, AC002498, AC004536, AC002526, AC002312, Z74039, U42835, AC002479, U14181, AC002385, U22084, U00047, Z72004, AC002295, Z82201, Z84718, AC004749, AL021069, AC002065, AC005271, AC004654,
- Z68871, AL009172, AL008715, AF035396, AC002463, Z92543, AC004615, AC004109, AL023579, AC002564, AC004746, AC004130, AC005166, AC002429, AC003677, U73649, AL021068, AC003106, AP000023, Z72001, AC002087, AC004094, U82828, AC003099, AC005160, AC004636, AC001642, N27134, AA425698, N78781, AA535734, R69270, AA743683, AA302706, H51692, AA573163, H48723, AA004673, H93293, AA359069,
- 45 T86184, AA358430, AA492164, AA837691, R08674, AA493718, AA503278, F07773, AA872448, N85051, AA682235, AA358429, D44828, T16582, AA338723, W87336, T54615,

AA812982, AA492182, AA346163, W03066, AA089488, AA601206, AA133956, AA234148, AA622134, AA865308, R55836, N63427, AA776728, R93932, H13401, AA907797, AA292642, N63089, AA151141, AA150051, AA305343, AI022912, AA206427, AA521004, AA481509, AA991835, AA458461, AA709140, N67721, AA115527, AA167530, H68770, AA972921, AA976214, T16929, AA252624, AA325906, R96323, AA447247, H71679, AA701497, AA975970, H81693, AA100828, AA131828, AA235846, AA256264, AA401767, AA521047, AA587555, AA846049, AA121425, AI042266, AA227112, AI027598, AA103613, AA210279, AA210303, AA518247, AA555732, AA671124, AA763122, AA690026, AA137440, AA606964, AA242059, AA637947, AA389264, AA387721, AA153119, AA475777, W63923, AA693296, AA869042, AA871426, AA271740, AA184039, AA638053, AA550163, AA023866, AA849427, T18217, Z37707, T76862, AA851236, AA925440, AA892794, AA926180, T42444, AF020597, AI013566, N21767, N97219, T22536, AI007733, AA698306, AI008253, AI011516, AA550634, AI030056, AA141148, C84796, N96845, H76196, C22922, C70405, R86782, AA191824, C66333, C67098.

15

SEQ ID NO.429

L12445, Z35659, U32751, U23523, M67991, U65655, AE000775, D85857, Z68116, Z68115, Z48334, U53501, AA256839, H85292, AA852539, AA009809, W90074, H58434, AA635799, R58547, AA018552, AA306158, W45031, Z40222, T32056, AA846872, T89544, H83085, W44584, R08617, R10343, H26970, AA743814, AA704417, T39659, T40715, R57905, AA724054, H82867, W67398, AA529982, AA980466, AA671346, AA538333, AA521837, W13639, AA619136, AA261447, AA760399, AA200739, AA087046, AA791386, T43427, AA123687, AT000037, AA943400, C50419, AA294059, C63449, AI044792, AA819898, T21132, H76371, Z26415, AA997929, AA438884, AA882631, H34142, C42761.

SEQ ID NO.430

30

AE000786, AC002534, AC003671, D87742, AF045635, Z99280, AP000019, X73301, AF055066, N22700, N26671, AA852538, N39824, N31174, F05933, AA309729, AA300297, AA004740, AA600042, N52860, AA432213, AA429602, R21849, R22978, R39564, R33584, R37509, AA333530, AA530506, AA049905, W47859, W63897, AA549928, AA999511, AI011725.

SEQ ID NO.431

- AB001913, Z48239, U32721, Z74894, L81904, AC003687, AC001215, U67584, U41034, Z68317, AF015155, AC003998, Z70035, AF003132, AF014938, AI052250, AA135173, AA658198, R52882, AA935209, AA037599, R81636, F06786, W29045, AA971063, AA487956, AA093026, AA700660, AA449166, AA025351, AA206311, T07904, R68234, AI039243, AA025362, T57194, AA441972, AA028174, H73189, AA448028, T86650, T79739, F06258, AA678347, AA097583, AA711849, AA117187, AA104610, AA124472, AA217592,
- 45 F06258, AA678347, AA097583, AA711849, AA117187, AA104610, AA124472, AA217592, AA596277, AA061983, AA124750, AA230566, AA671835, AI007443, AF009727, AA851627,

AA800685, C92713, AA949956, AA898046, C91428, AA858740, AA851377, AI009790, F14079, AA979708, D37705, AI013904.

- -5- - SEQ-ID NO.432 --

AF001076, AF001075, U32681, AC004534, M33582, L24501, AC003113, Z85995, AC004142, U40800, U43375, AC005200, AC004613, Z71265, Z35637, AA496898, AA083885, AA018400, R78916, AA809238, C00727, AA593664, T05906, R84392, AA356896, AA348753, AA435639, R09284, T78152, AA622134, T77125, AA837697, AA079068, W63866, AA939532, AI036540, W33698, AA113497, AA532216, AI008021, AA540703, AA816271, AA990700, AA950767, AA816608, AA950988, AA141584, AA788149, AA440091, AA540934, AA955627, AA539015, AA391660, AA979647, AA956638, AA441643, AA264460, AA817098, AI009786, AA695592, AA440436, AA440938, AA821245, AA816607, AA802380, AA140871, N60235, AA944825, AA979037, F20054, AA698203, AA539962, AA536282, AA390297, AA979047, AA957711, AA950509, AA950006, AA942738, AA802556, AA440400, AA440502, AA390305, AA539067, AA539195, AA440351, AI013909, AA946273, AA942516, AA848499, AA817204, AA539630, AA680973, AA440330, AA955289, AA948815, AA924063, AA820547, AA536381, AA990836, AA735210, AA891455, AA141585.

SEQ ID NO.433

AB006707, AC004100, Y13034, AC000365, AC004598, Z81051, D78804, W27129, AI017782, D29518, AA027089, AA148983, AA747315, AA411220, AA701252, AA687243, AA422103, R70141, AA435001, AA404079, AA008128, AA572486, AA795341, AA004158, AA051674, W17808, AA674683, W13245, AA271695, AA433616, AA517270, AA144388, AA177843, AA822377, W71938, AA562569, AA518887, AA734703, W62333, W16372, W08500, C82830, C83686, F23094, AA555617.

のでは、2012年の第一年の日本語の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の1992年の19

SEQ ID NO.434

- Z73359, AC003982, AF030453, X51875, AC004084, AL008725, AC003109, AC002553, AC004491, L81854, U52112, AL021939, AC002350, AC002059, AC000026, U91321, AC003043, AF006752, Z98036, AE000658, AP000040, AC002074, U85195, AC000067, AB001523, AC002316, U71218, AC003667, Z82976, Z54147, Z97054, AC004778, L78810, AC003110, AC003010, AP000032, AC002551, U63721, AC004685, AC003072, AC002310,
- 40 U62293, U95740, AC004776, U91323, AF016898, U91328, AF053356, AC004382, AC004638, AC002045, AC004447, AL021155, AF001549, AC003103, AF024533, AC002301, AC002115, AP000056, AC000085, Z67997, Y10196, Z83843, AL022145, AC002418, AF024534, Z84480, AC002288, AC002425, Z84474, AC004386, AF064861, AC004623, AC004520, AC004151, AC002300, U95739, AC002126, AC000397, L48038, AC004125, AF001550, Z83838.
- 45 AL022396, AC002116, AC004493, AL008635, AP000030, AD000812, AC000120, AC002390, L44140, L40817, U96629, AC003104, AC003956, AC002287, AL021393, D16583, U89387,

AA249372, AA063358, N35927, R98687, AA737099, AA077052, AA443055, W42588, AA602540, H90843, H77956, AA490072, H73550, AA501781, N42646, AA318894, AI050922, AA653009, H81732, R94321, N55560, AA486680, AA005163, AA767276, AA658101, AA984920, AA452879, AA486580, AA322484, M77904, AA904211, AA149033, AA047275, - 5 - AA866017, T06564, AF034176, AA643794, AA614197, AA603387, AA663074, AA758200, W38349, AA230155, N23919, AA320105, AA225548, F00688, AA486925, H29220, R00987, AA652910, AA188423, AA579437, AA533241, AI005241, T86730, AA991792, AA226142, AA229080, AA452998, AA229034, AA187277, AA748140, AA181070, AA525157, AA728933, AA808945, AA468319, AA468466, H47143, R36518, AA297776, AA715850, AA487074, N22153, W02033, AA636102, R81351, T58747, AA834765, AA100887, 10 AI032585, R97802, H53321, AA372323, C06329, AA978101, AA459285, AA434037, AA459514, AA188897, T91017, AA491869, AA669329, AA492015, T74259, AA501426, AA074026, AI032875, H70425, , AA423702, AA475943, AA073266, W64810, W64836, AA764537, W58950, C87864, W62449, C87922, AA501128, C86532, W62377, C88111, AA823826, AA620234, C87438, AA501262, AA516955, AA863851, AA261001, AA427243, AI020118, C88193, AA764353, W97167, W77222, AA501297, AA863837, AA030390, AA261578, AA990245, AA717794, W51648, W61986, AA920656, C79677, AA414764, AA638449, AA238287, AA712062, AA590502, AI035290, AI035307, AA517646, AA516629, AA109592, AA589831, AA124697, AA163924, AA388267, AA138366, AA832570, AA138380, AA253992, AA638888, AA544053, AA138372, AA049041, AA216836, AA260786, W18022, AA145713, AA288642, AA619003, AA726578, W18014, AA163505, C79718, AA217036, AA177903, W97045, W97935, AA272788, AI042720, AA688882, AA154624, AA733622, AA881552, AA062017, AA014169, AA049365, AA607518, AA501217, AA189219, AA216905, W90879, W54605, AA863868, AA175510, AA049778, W06387, H39328, H39389, AA550283, AA817848, AA894110, AI008183, H39351, AI013937, AI044039, H34360, H33967, AA874831, AA924449, AA998556, AA942712, AA858572, H32904, AA944790, AA923995, AI008665, AA859198, AA850898, AA955448, AA893806, AA850727, AI010426, AI028965, AI009485, AA945588, H31789, AA107123, AA956675, AI044620, AA800974, AA944794, H33833, AA859718, AA802166, AA818876, H35257, AA925125, AA550596, Z36495, AA957396, AA996923, H33511, AA942692, AI012741, AA891642, H31489, AA056877, AA893827, AA893994, AA891239, AI009626, AI029815, AA943813, AA859010, AA925965, C93368, AA924474, AA957108, AA799649, H33090, AA849868, AA859091, AA924716, AA964244, AI044282, AA946046, AA848498, AA963624, AA801011, AA851699, AA891712, AI009418, AA817797, N38007, AA849327, AA859260, AI044945, H32789, AA859214, AA943379, AA892292, AI009642, AI045812, H31499,

SEQ ID NO.435

AI029897, AA735681, AI008303.

40

U73338, Z92822, U75743, Z83733, L21672, AF047657, AC004440, AC004082, D38514, Z92817, Z48717, AC002089, AA504613, AA504708, AA280659, AA347314, R86087, H42689, AA972733, AA233640, AA165330, W21594, AA314347, AA552609, AA513036, AA385198, AA584025, AA639118, AA909485, AA746900, AA777991, H58467, AA730763, AA729376, AA772741, AA630871, AA583071, AA523676, AA703351, AA463908, AA320676, N88631, AA865077, AA954801, AA877969, AA095487, AA635994, AA130491,

AA089939, AA082240, AA188288, T61375, AI022488, AA991718, N95570, AA654041, AA643042, AA640880, AA662627, AA579495, F20436, AA385562, AA143245, AA846093, AA828770, AA738334, N95767, AA600874, AA482937, AA369439, AA177081, AA314679, AA348788, AA300820, T52356, AA230225, AA315847, T61408, D51249, AA985010, AA857363, AA812272, AA308460, AA578698, AA521378, AA514011, AA503457, F21217, AA331107, AA330296, AA181874, AA186669, AA155740, AA148538, AA092441, AA085696, AA084377, AA081603, AA226239, N55743, T75023, AI024535, AA936154, AA876622, AA664666, AA781581, AA316413, AA558317, AA657547, AA652927, AA640404, AA591113, N96627, AA739559, F15294, AA900343, D27665, C83826, T13884, AA752067, N97965, AA946497, AA041137, AA509018, C49783.

SEQ ID NO.436

- M90969, Z81084, U12361, U12351, Z70270, U12354, U12357, U12341, U12371, U12355, L39874, U12364, AB011476, Z97343, U58332, AC005177, AB007727, Z81594, M81327, AL023835, AL008633, D86971, Z82183, Z83229, M92089, AC003075, AA884816, AA828313, AA018399, AA811214, AA135468, AA281425, AA975189, AA789178, AA083884, AA689328, AA811901, R79014, AA249735, T25115, AA928681, AA909608,
- C02049, AA775560, AA788871, AA596081, AA295431, AA824386, W74315, AI018411, AA658473, AA490714, AA259084, AA261999, AA258850, H85086, H44212, H18385, T63244, AA586967, AA676729, AA988830, AA059065, AA639804, AA916605, N34096, AA057472, AA635164, AI015641, AA483135, AA632080, T71816, C00094, T29391, AA601514, AA863447, R56653, R81829, H95199, D56941, AA031937, AA001637,
- 25 AA219653, T70119, AA579623, T77620, T89753, AA583770, R26438, H23301, D56964, N62896, AA133821, AA426099, AA443694, AA467857, AA452410, AA889752, AA577952, H59342, N76636, AA074511, AA031960, AA010622, D79943, AA721161, R68690, R22448, AA774612, T03471, AA578857, AA251387, AA911301, Z45012, AA001255, R85579, T70242, Z40360, AI033370, AA663627, H91710, AA150149, AA761656, AA700292, AA401656,
- AA472361, AA518290, AA190148, AA437886, AA420360, AA792009, AA547655, AA574533, AA414890, AA684269, AA655256, D18644, AA645420, AA563394, AA666890, AA693000, AA538546, AA422806, AA289008, AA590748, AA546864, AA414728, AA561619, AA638415, AA547311, AA540541, AA952189, AA391985, AA540110, AA497363, AA990629, AA392796, AA439185, AA390996, AA263604, AA539975,
- AA541193, AA391712, AA979008, AA264350, AA941371, AA951601, AA202932, AA978549, AA950814, AA941313, AA538635, AA951517, AA246411, AA438770, AA541057, AA201626, AA942497, AA978910, AA392477, AA202492, AA203033, AA949329, AA950926, AA941131, AA941565, AA941668, AA816730, AA439410, AA202468, AA820668, AA803082, AA392410, AA247023, AA735607, AA550001.
- 40 AA859752, T02714, AA957765, D33914, C24012, AA598067, AA892496, AI009837, C91907, AA701741, C24292, AA585791, AA858565, C93748, W03311, C24200, AA963050, AI045802, C24123, C90290, AI029888, AA832530.

Z22751, AC000116, AP000053, L21672, Z95334, Z95704, X15198, AF076243, AF074021, AF015172, AC003671, Z81507, Z81082, U40954, U29700, Z82001, U67487, AF014117, Z81086, AF012811, AL023589, AC004082, AE001146, AB009518, Y12602, X61201, AF016433, AL021492, AB000800, AC002089, AA504613, AA347314, AA280659, AA504708, --5 - AA469191, AA251938, AA512935, AA471183, N32731, R07623, AA085696, AA113894, AI041226, AA677026, AI049675, AA463908, AA569550, AA488003, AA573164, AA250120, AA591113, AA472211, AA801811, AA739559, N98071, N97723, AA900343, AA509018, D27956, AA041137, AA943027.

10

-SEQ ID-NO-421-

77 W 77/ V-1444

Z35659, M67991, U23523, L12445, U32751, AE000775, Z68115, Z48334, U53501, Z68116, D85857, U65655, AA256839, H85292, AA852539, H58434, AA009809, W90074, R76454, AA630237, AA306158, AA704417, H46425, T40715, AA018552, W45031, AA743814, R37523, AA976072, AA652029, T89544, T32056, H26970, H82867, AA724054, M91507, T39659, Z40222, AA745486, AA846872, AA532660, R10343, R08617, R57905, H83085, W44584, AA529982, AA619136, AA261447, AA087046, AA760399, W13639, AA200739, AA521837, AA980466, AA538333, T43427, AA791386, AA979149, AA123687, AT000037, AA819898, H76371, AA882631, AA294059, H34142, T21132, AI044792, AA438884, Z26415, AA997929, C12250.

SEQID NO.422

1560年,在中国2018年

19、李明 自然联系统统 AF055066, D87742, U03517, AE000786, Z77661, U96410, AC002534, AC003671, AF045635, AL023828, Y13027, X14564, AC002133, L25599, AF016485, AF038667, AB005248, Z99280, U00066, N22700, N26671, N39824, N31174, AA852538, AA309729, F05933, AA300297, Market Company of the Company of N52860, AA429602, AA432213, AA004740, AA600042, AA333530, R39564, R37509,

"特别的"秦帝的""本。

。 解音音 對某权的 2000

- H10751, AA779571, R21849, R22978, AA326278, AA828131, AA779268, AA021539, AA134969, R33584, AA272205, AA198541, AI050266, AA008780, W50581, W54065, AA013712, AA790199, AA530506, W39795, W47859, AA544020, AA285935, W78367, AA541855, AA756426, AA543223, AA407351, AA049905, AA980096, AA198960, W59406, AA543470, AA051746, AA051740, W63897, AA543462, AA549928, H35214, C22086,
- AA540625, C44615, C44702, C66923, AA536593, C50811, C45621, AA695657, C43409, C42954, C39471, AA566406, AA802971, C22260, C09924, C08764, D75395, D74740, R30020, AA997324, C42563, AA996401, AA695316, AI011725, AA956731, C69349, D70026, C09085, AA697043, C47594, C44847, AA956205, AA951676, AA824226, C49923, C47102, C90229, AA685785, C68943, C49315, C45448, C09296, L47915.

40

SEQ ID NO.422

AE000853, M26434, M12452, AC004383, X96753, U31787, X55034, U74466, Z98866, AF007146, D10483, AE000119, AC002382, AA312671, AA282643, D83876, N50595, AA187413, T83492, AA043135, W24247, AA319013, AA362082, W58065, T33545, H10621,

H10530, AA377379, Z24890, AA280559, AA383048, W39165, C04061, AA431253, AA432265, Z19408, T19207, T30424, N87732, T30773, AA887987, AA889949, AI027021, R50885, AA339666, W93928, R88247, AA349119, AA886792, H94757, AA336010, T93851, AA028181, AA435882, AA725635, R05354, AA169888, AA811848, T27916, R82851, - 5 - N46251, W73523, AA613127, AA701208, AA416921, AA287199, AA420439, W44786, AI016901, T04879, R21563, AA255647, AA808699, N75835, AA764987, AA215889, AA316287, AA782982, AA324022, AA420440, AA424896, AA911858, N98986, W39384, AA397600, W44785, D30975, AA797057, AA407279, AA403499, AA795751, R74779, AA138599, AA839444, AA209842, AA756246, AA859362, AI011220, AA140641, AA697034, AA997115, AA141282, AA851172.

SEQ ID NO.350

10

- AC004766, AC000365, Z69796, AC002113, AL021069, D88026, Z81051, D50916, X91617, U15025, Z92547, X97604, W61030, AA954169, AI031842, AA838837, N52974, AA176341, AA588774, AA121949, AA187312, AA150669, AI026041, W58398, AA350776, N50541, AA825435, AA570012, AI031987, AA150793, AA837996, AI031602, AA101636, AA320713, W15235, AA919051, AA101635, N98564, W39035, H10349, AA878033, AA040866,
- AA432265, AA669911, AA280315, AA431253, AA669917, AA631159, AA856641, AA121931, C04061, N44345, AA865662, AA858033, T30424, AA282538, Z28505, Z19408, T83345, AA034925, AA916616, AA034933, N87732, N54028, AA318757, AA043135, H10530, F00384, N56380, T33545, AA633832, W39165, H10621, AA377379, AA319013, AA969361, AA436123, AI016907, AA291976, AA226925, C15007, AA131733, N71334,
- AA164385, AA292165, AA523137, AA293317, D51248, AA641507, AA257016, AA636038, 25 AA180746, AA868969, H24765, AA292065, AA398577, T63419, T97980, AA576119, See AA270174, AA245702, AA711339, W55650, AA407278, C79004, AA561714, AA667194, AA288522, AA204018, AA137940, AA286384, AA203785, AA125556, AA265874, AA286384, AA286584, AA8864, AA474321, AA795566, AA537211, W78283, AA671347, AA111556, AA071706, AA511061,
- AA867100, U91685, AA166356, AA153041, AA200270, AA981316, AA891230, AA848299, AA924412, AI008010, C91817.

SEQ ID NO.418

35

L11670, X94265, M60871, AF053745, Z93021, L35272, U62631, AC002511, AC004243, M37033, AF043703, AA148393, AA147086, AA322967, AA322914, AA353196, R20069, AA054189, AA362206, AA054169, AA360832, T65088, R37922, H70124, AA360994, T19006, AA731897, AA503711, AA431090, T85391, W74404, AA055285, AA158657,

- AI002203, H09138, AA297027, AA417202, AA991752, AA976655, AA621848, AA481261, W45634, AA811477, AA694317, AA330583, R68013, AA058932, AA286960, N45566. AA287919, AA731027, T71098, H92640, N40079, N44797, AA707671, AA464675, AA253389, H45906, AA968917, R64206, AA431091, AA773762, AA253414, AA731754, H42129, N32469, N90240, AA743738, T58992, AA455204, AA794141, AA245190,
- AA110302, AA178023, AA673874, AA212119, AA274662, AA895062, , AA901423, AI029474, AA875475, AI012039, AA799473, AA942674, AA924688, AI010780, AA787461,

AA951210, N96484, AA231739, AA712303, H32118, D70105, AA957641, D69835, D69760.

SEQ ID NO.419

AE000658, Z94277, AP000056, U85195, AC002529, AC004259, Z19108, X72582, Z81308, AC002416, AF064863, AL022580, AC002390, L36897, Z83836, X02421, AL031024, AC000389, AF011889, AL021768, M63839, AC003103, AL022727, X70810, Z69360, AL009051, Z99660, J03300, Z79602, X00044, X06254, Z73905, X00480, L35664, X55736. Z68144, V00683, J01465, Z11874, X52046, AC003074, AC000119, AF002109, Z82274, AL021939, Z93722, U82668, AC002357, L48177, Y08062, Z99572, AC004482, M80599, L39655, AL021997, Z97355, AC000098, AE000659, AF016661, AC003000, AE000440, AC005012, AC003100, AA904418, N24778, H83690, AA382262, AA331106, AA609762, AA432261, AI015258, AA136051, AA130132, H60707, AA918423, AA130119, AA383217, F03710, T65372, AA905286, AA776540, AA018501, D52831, AI015086, F09402, AA830369, D20019, AA382789, AA088173, N25204, D62401, AA789201, AA058373, AA129862, AI051093, AA629332, H22958, R68944, R63968, AA826414, AA258314, AA435914, F04748, AA405559, N90250, W81127, H82506, AA984104, AA937297, AA830368, AA620335, AA397874, AA165524, Z39390, AA918246, AA629349, C80595, AA174553, AA463120, AA389945, AA072603, AA590182, AA967846, C87349, AA924689, AI045120, C90061, AA514083, AA963786, C91562, C25634, AA283499, C91337, C89627, C92908, C92150, AA818963, Z29889, C93719, C58285, C25530, C90119, C57162, AA471570, C89706, C24337, C91047, D22759, AA390616, C94110, AA265012, C59331, AA542533, C33821, N97688, AA751636, N38534, AA395695, H16491, N98027, C49783, C68487, C69927, C94082,

SEQ ID NO.416

25

30

35

40

U78312, D26185, U88182, U58972, AF045775, Z99104, AC002070, D44915, D81665, AA243373, AA830325, C15608, W45435, L44402, AA768320, AA215717, AA740983, AI032793, AA113113, AF034174, C00818, AA953516, AA643067, AA758212, AA154161, AA717139, C24338, AI026597, C94015, C90664, C94074, C90179, T38999, H34977, AA754145, AA892815, AI028926, N27312, AI030810, AI045851

T44510, C45504, C92722, C93847, AI029615, AA141050, D27665, AA118244, C93931,

AA893204, C94120, AI030030, C92508, AA842966, T14900, Refer to the control of the

SEQ ID NO: 437

AF012072, Z34918, AF012088, D12686, AJ001046, L22090, AF067220, AC002343, Y10804, U39676, U66160, Z46240, Z97205, X84923, U64827, AA191463, AA113265, M85634, AA632286, AA744722, AA743070, R80171, AA659197, AA935439, AA262384, AA580810, AI039220, AA857299, AA019268, N42261, N65990, AA505387, AA618058, N75063, AA303191, H46968, AA740463, AA161498, AA019241, W31772, AA908395, AA488220, AA206825, W32291, AA931076, AA746487, AA455451, W31201, AI016519, AA031646,

AA936118, AA923624, AA633053, AA609344, AA488254, AA455452, F18818, R72160, T59794, AA722193, AA491642, AI039617, AA609958, AA078878, AA843390, AA742679, AA722666, AA024633, AA736602, H11063, AA281783, AA722981, AA715375, AA437201, AA234719, AA226545, AA512922, H40724, W84602, AA863411, AA713530, AA436462, AA441796, AA133599, W74161, R53463, AA806686, AA576035, AA226209, AA171367, AA166246, AA171042, C80644, C77834, C80833, C78609, AA655154, AA607383, AA445222, AA899256, C19374, C60443, C65586, C62715, D36745, D28092, C83994, C94615, AA944136, AA950370, AA875505, AA696127, C65315, AA957813, AI008521, Y09360, T26752, H55061, C39854, AA900968, AA891252, AA540438, AA943755, AI045237, AI043252, C64689, AA696375, AA440250, AA979307, AA858492, AA858497.

SEQ ID NO: 438

AF012072, U04282, U93694, AL010269, Z99104, AB002150, AC002541, N34551, AI017135, H99291, AA903329, AA937078, N34541, AA425182, AA457547, D59286, D62357, H89366, AA526320, N29478, AA609043, N75058, AA490854, AA457747, H89553, N66282, D62145, AA665666, W79550, AI014367, N92469, R50684, N25822, C21162, AA468635, AA766801, AA163459, AA289612, AA209088, AA172736, AA982479, AA137939, AA445488, C86651, AA254210, R75462, AI019204, AA509441, AA002277, AA655398, AA451453, AA959668, AA960423, AA958949, AA815887, AA397202, AA734512, AA893170, AA998982, AA964477, AA819125, AI009093, U30849, AI029468, C93730, AA570819, F13984.

海洋海铁层

经金额额

大**用物物的多数**

AF012072, AB003362, AC004289, D29759, X87108, Z48716, AF007128, U18916, Z81089, AC004100, AB010073, Y07749, U36624, AA425125, W40521, AA774760, AA249536, AA025079, AA293841, N24286, R17022, AA284646, AA813789, AJ003275, AA703531, F06699, AA916681, AA991282, N91049, AA769441, AA806272, AA922902, AA770557, N39869, AA604524, AA669349, AA766229, AA814368, AA502725, AA044583, H66421, AA912519, R54165, AA033569, AA972243, AA058420, C04504, N75161, AA477082, AA428824, AA878232, AA477360, AA179025, Z98510, AA479741, AA055480, H29633, AA744586, AI041216, AA781138, AA058384, W01276, AI039716, AA456309, N85658, N36178, N34263, N34260, AA499955, AA623031, AA871801, AA623053, AA762442, AA061706, AA387192, AA142665, AA396105, AA050454, AA220744, AA013789, AA518182, D36337, AA098651, AA998845, AA787710, C23744, Z92701, AA080702, AA454282, AI044363, AA713021, AA191846, AA712577, AA893720, AA676129, AA550275, C23701, Z29876, AA257810, D66495, C93766, F14340, C41638, T38212.

SEQ ID NO: 440

AF012072, U04282, U93694, Z83838, AJ229042, AF051934, AC004238, Z74352, X84162, Z49209, Z74351, Z48717, AF005675, AF005674, Z74072, U04280, X56564, AC004414, AF005697, AF005694, AF005680, AF005673, AF039057, Z74071, AF005669, AF005683,

AF005679, AF005682, Z48432, AF014948, AF005670, AF007943, AF005681, AF005678, AE001040, AF005684, Z68748, U53337, Z75714, AC002541, L12722, U41624, AF005672, AC004016, Z97342, U29157, AF067619, U88173, U88166, AC002465, Z99281, AB008681, Z72831, U62943, AF029791, L05514, L04132, AF005685, AF005671, AA425182, AA457547, 5 H89366, AA937078, N34551, AA903329, AI017135, N34541, H99291, D59286, D62357, AA665666, N92469, AI014367, W79550, R50684, N25822, AA457747, N66282, C21162, AA468635, AA490854, N75058, N29478, AA526320, H89553, D62145, AA609043, N44557, W05794, AA705169, H06933, W88709, R42683, AI017605, T68350, N95594, AA336339, AA528395, AA083916, AA147928, W25684, AA604164, H93075, AA013334, AA776703, AI000693, AA163459, AA209088, AA289612, AA172736, AA982479, AA137939, C86651, AA254210, AA445488, R75462, AI019204, AA509441, AA002277, AA655398, AA571528, AA139333, AI021204, AA451453, AA537146, AA537280, AA271829, AA612432, AA276965, AA433546, AA516947, AA821737, D18988, W16283, AA958949, AA762234, C85907, AA589522, C76067, AA690108, AA759947, AA968368, AA003958, AA063879, AA166186, AA397202, AA608321, C76476, AA177406, AA615429, AA832682, AA216884, AA959933, AA960279, AA178520, AA197396, AA254248, AA646552, AA270884, AA960071, AA032352, C76479, W53243, W41360, AA794425, AA673901, C76467, AA267923, AA959668, C79956, AA960423, W35735, AA623342, AA893170, U30849, AI009093, AA964477, AI029468, AA998982, AA819125, AI009853, AI008017, C10511, AA658642, AA874889, AA944429, AA193834, C83963, T18112, AA495115, AA550212, AA848179, W51512, AA842891, AI044502, AA257402, C94558, AA728034, AA941899, AA727986, AA273092, AA848184, AA728058, AA570819, AA728040, F13984, AA848180, AA728053, N43466, AA280453, AA997836, R82900, AA542796. THE PROPERTY YOU

SEQ ID NO: 441

8500 · \$1\$ 4.1500 (1) 11.15

25 7 7 7 7 1 4 1 1 9 1

AF012072, D12686, L22090, Z48716, Z97336, U23518, AC002090, U33936, Z81089, L20738, U90338, M83681, Z74019, L20736, L20735, AC004782, AA931479, AA774760, AA293841, R74054, M85634, AA025079, AA402442, AA425125, AA779433, Z99374, H09880, AA456309, W01276, AA814368, W84888, AA502725, H01349, AA703531, AA744586, AA159913, AA056242, AA766229, AA769441, AA131358, AA991282, AA806272, T16876, Z38729, AA972243, AA480453, AA617800, AA655434, AA163547, W30630, AI037737, AA623031, AA871801, AA623053, AA546712, AA142665, F23005, Z29876, C61324. 35

44 Masking

(2) 他国际公司等等。

·苏尔文 (新文)(XX)()。

SEQ ID NO: 442

AF012072, Z34918, AF012088, D12686, L22090, AJ229042, AF051934, U84100, AF005680, Z48432, AF055066, AF005679, AF005674, AF005673, AF014948, AF005681, AF005683, AF005670, AF005675, Z74072, AF005682, AF005697, Z74071, AF039057, AF005669, AF005694, AF005685, AB008681, U29157, AF005684, AC003009, AC004532, Z68748, AC000066, AF015454, L05514, U62943, L04132, Z68296, AF005671, AF005672, U03496, AF005678, AF030884, U84099, AC004763, AI014367, N92469, C15377, AA134568, W05794, W17157, W79550, AA468635, R50684, N25822, AA665666, AI039626, AA134567, R50683, 45 AA457747, Z26996, AA491028, N44557, C21162, AA425182, N75058, AA527291,

AA147590, AA730099, AA910355, AA011174, AA095103, AA610357, AA658171,
AA211545, AA059268, AA579633, AA173380, H50624, AI024443, R73685, AA176799, H56415, AA010443, AA713681, AA521194, H01346, AA312008, AA613629, H89553, AA604164, H93075, AA705169, H79772, AA336339, AA776703, AI017605, AA563630, AI000693, AA102784, AA509441, AA655398, C86651, AA002277, AA210375, W61392, W61394, AA840592, AA822617, AI019204, R75462, W30394, AA008667, AA254210, AA103273, AA172736, AA261254, AA839128, AA033419, AA014557, AA212904, AA762524, AA080224, AA409974, AA139181, AA881971, AA538296, AI048331, AA959429, AA139372, AA538203, W29456, AA538068, AA271264, AA209088, AA244839, AA530597, AA174577, AA104643, AA152553, AA038437, AA608039, AA048344, AA451453, AA271829, AA762267, AA762288, AA140341, AA893170, U30849, D33256, C11247, C54341, AA720446, AA624966, AA658642, AA800217, AA925357, T18112, R82900, AA999529, AA241425, AA495115, C36016, AA241554, AA941899.

SEQ ID NO: 443

AF012072, Z34918, D12686, AF012088, L22090, AJ001046, AC002343, U41109, Y10804, X84923, D90909, U23179, Z49127, M21538, AF012759, AF025311, U66160, U95072, U64827, L06314, W28058, AA744722, AA743070, AA632286, AA191463, AA213861, AA226545, AA618058, AA437201, AA488220, W31772, AA512922, AA609958, W74161, AA715375, W31201, AA226209, AA719430, AA161498, AA576035, AA455451, H46968, AA722666, AA806686, N42261, AA740463, AA908395, AA609344, AA303191, F18818, H40724, W87293, AA857299, AA078878, AA936118, AA488254, AA455452, AA262384, C80833, C80644, C77834, C78609, AA171367, AA510297, AA607383, AA692251, M79676, D28092, C19374, AA754258, AA963758, C65586, C62715, C60443, D36745, C55049.

30 SEQ ID NO: 444

AF012072, Z81472, AC002541, U04282, AC004056, L12722, U88166, AF029791, U88173, Z72831, U93694, AE001040, Z83838, U61954, AA457547, AA937078, N34551, AA903329, AI017135, H89366, N34541, H99291, D62357, D59286, AA425182, N66282, AA526320, N29478, N75058, AA490854, AA457747, H89553, D62145, AA665666, W79550, AI014367, N92469, AA609043, R50684, N25822, C21162, AA468635, AA278278, T80867, N44557, AA714177, AA969095, AA972159, AA163459, AA172736, AA289612, AA209088, AA982479, AA137939, AA445488, C86651, AA254210, R75462, AI019204, AA509441, AA002277, AA655398, AI021204, AA451453, AA537146, AA537280, AA516947, AA893170, AA819125, AA998982, AI009093, AI029468, AA964477, U30849, AI009853, AA550212, AA570819, F13984, AI044502.

SEQ ID NO: 445

45

Z48245, X83276, Z74247, X99000, M94227, U08352, U03473, AF018435, L23514, U67178,

X94357, Z46260, L15551, Z72778, U32716, AB007467, U69552, Z35927, Z72777, M33278, M93143, N28296, AA663317, AI040617, AA971393, T67549, H95292, AA017197, AA375721, F08457, AA554095, AA767869, AA553380, AA235268, AA355944, AA612265, AA596275, AA098609, AA185885, W12188, AA881433, C78467, AA896711, AA154044,

AA859725, AA899160, AA803715, AA539999, AA391055, AA440858, AA942341, AA841067, AA949896, AA438398, AA540338, AA246238, AA696942, AA440043, AA471413, AA694720, AA950337, AA949459, AA941839, AA264579, AA820662, C90662, AA817450, AA540949, AA735842, AA439703, AA951570, AA950029, AA952009,

- 10 AA540420, T17538, AA979292, AA438336, AA264221, AA264219, AA949999, AA951921, AA536418, AA820922, AA540051, AA441238, AA948809, AA990845, C93099, C62127, AA391443, AA990743, AA951533, AA941915, AA941397, AA820068, AA541131, AA439451, AA979218, AA950015, AA820742, AA202727, AA520774, AA949921, AA820751, AA264112, AA697033, AA695530, AA541155, AA979643, AA978852,
- 15 AA949685, AA952137, AA942561, AA820429, AA264776, AA440402, C92054, D24625, C91180, C92438, C93119, AA874812, C23728, C72462, C92892, Z30501, C72097, AA042346.

SEQ ID NO: 446

20

AC004463, AC004158, AB006697, Z98048, AB009055, AF001549, AC002524, AC002406, AC003964, L10986, U18972, X65636, Z81089, Z95126, U73479, AC003086, Z99497, AI025516, N25214, N67129, AA903608, AA476806, AI051500, N31470, AA446451, AA027854, AA363793, AA605127, N51334, W42456, AA547935, AA918084, AA630088, AA938286, T89721, W03461, AA311168, AA788746, T34721, AA363794, R41694, N44037, N63123, N44264, AA173913, AA055080, Z39124, R50963, AA299991, H86158, N36390, AA730429, C04162, AA034988, W42561, D62071, AA653819, AA665081, AA055134, H71242, AA029314, AA677064, N41425, W69895, W69841, AA063620, AA029867,

1.3

AA040154, AA693737, AA701241, N47678, AA609289, R15106, AA088480, W24445, AA480782, R51810, H10220, AA579772, C79455, AA792161, AA671422, AA756344, AA822139, AA209822, AA118978, AA516715, AA762373, AA267569, AA245913, AA153688, AA239881, AA139444, AA117206, C78532, AA851788, AA800969, AA849566, AA901258, AA924056, AI011424, AA923925, AI010363, C66629, C67564, C70380, C91257, AA999535, C21953, AA549907.

SEQ ID NO: 447

M62953, Z95126, X55749, D89218, U31907, X55751, U60480, U97017, X55747, D63665, AA098876, W65387, AA452524, W61291, W48754, AA320709, AA364030, AA828979, AA311692, AA315870, AI040491, N26738, AA745708, AA053636, AA234186, H90042, AA302541, N55714, AA361364, AA101794, AA102356, AA129123, AA279517, T63748, N56506, T63422, AA092931, T82177, AA249676, AA205858, AA098877, AA773566, AA886992, AA093538, AA342846, AA224364, T60516, AA219081, H57387, N42040, R93314, W60845, AA236104, AA452600, AA150480, T89078, AA221191, AA184431, C89104, AA097593, AA467585, AA571506, AA867389, AA896118, AA163079, AA472882,

D17813, W64901, AA123458, C23074, AA925213, AI010563, AA900880, AA955169, AA925719, AI010069, AA925289, C23075, AI011062, AA945182, C26456, W05857, C28210, AA785779, AA801957, AA990976, AI029646, H04730, AA819590, AA924393, AA495335, AA900197, Z30935, C62163, AA891625, AA597908, AA964238, AA824898, AA900027, -5 - AI029124, AA850824.

SEQ ID NO: 448

- 10 AF070717, U14571, Z73429, AC004785, M82819, AC002365, M30688, X54486, X96421, Z84814, AC002428, Z97053, AC004627, Z75895, U82208, AF048729, AC004400, AC002980, AC002418, M19878, AC002465, U73638, AC002203, X71342, AL008712, Z68276, AC002119, U62293, Z98036, AC002543, Z81370, D86256, U14573, AC003071, AE000660, AC004472, AC004687, AL009172, AC002477, AC004217, AC002433, AB000877, AC004475,
- 15 AC004651, AC004552, Z84467, X69951, Z46936, Z84572, Z97632, AC003663, Z69917, AC003098, U07562, AC002306, AC004084, AL020997, AC004694, AC004761, AC004534, AC004762, AC003085, AC002289, AL022396, AC003009, AC003002, U95742, Z98745, AF053356, AC004257, AF023268, AC004799, Z82243, AC004760, AC003982, AC004706, Z97876, AF003626, AC003006, U82828, AC002468, M19482, AC002126, AD000812,
- AC005264, AF064864, AC000381, Z97352, AL009029, AD001527, X55448, AC004647, AC004699, AF020802, AC005181, AC004773, AC003963, M29929, AC000397, AL021920, AA279518, AA629913, AA773566, N69507, AA132750, AA098877, W92962, AA454107, W48755, AA630713, AA669834, AA886992, AA598682, C15093, AA224364, W92961, AA863200, W72931, R76765, AA992646, W94226, AA580701, AA219402, AA8642402, AA86424
- 25 AA197313, H22885, AA470899, AA279517, AA633244, AA374705, AA224225, AA809964, AA903014, F00274, AA705999, AA129124, AA679478, AA342846, W61291, AA452524, AA501614, AA206468, W65387, AA720732, AA854515, R92404, AA628627, H57826, AA357307, AA663966, T48872, AA526193, AA130501, H63193, AI049996, AA631497, AA632479, AA593471, T78484, H74314, AI016704, AA190895, AA515046, H05073,
- AA983692, W23546, N64587, AA730581, AA077776, AA093538, AA655005, AA878149, F17700, AA972238, AA491814, AA635442, AA654761, R92629, N54902, AI049634, AA714956, AA493170, AA446657, AA973803, AA603323, AA838140, AA838161, AA662974, AA068993, AA830594, AA528480, AA601405, AA513141, AA484143, AI049598, AA558404, AA553448, AA689351, AA493708, AA832175, AA823826, C88111, W64166,
- AA501262, W61986, AA501297, AA516955, AA516629, AA517646, AA474026, AA517461, C87438, AA415875, W64884, W51648, AA863851, AA501128, W62377, AA501217, AA815883, AA575771, AA855776, W71517, C87922, AA682032, C77110, AA547030, C78926, C86532, C85415, C79035, AA267254, AA414457, AA717992, AA275703, AA869376, W82358, AA683670, AA067744, AA239405, C79044, AA068376, AA068629,
- 40 AA409884, AA789411, AA207823, W82382, AI035398, W62449, AA407027, AA840572, AA571579, AA856295, W29776, AA792596, AA119316, AA636169, C80141, AA959694, AA571757, AA763006, AA636431, AA015385, C78109, AA461753, AA840059, W18242, AA117146, AA606436, AA174514, AA645837, C88511, C79965, AA764103, AA560758, AA427030, AA855816, AA163924, AA162296, AA619556, AA755480, AA272861,
- 45 AA222401, W77222, C76269, AA692659, C87864, AI042687, AA608054, AA512244, AA125170, C88193, AI042727, AA691470, AA030390, W97167, AA990245, AA863837,

AA184653, AA636152, AI044039, H39328, AA550283, W06387, Z69957, H39389, W06750, AF064463, H39351, AA923995, H39426, H39330, AA944794, H35257, AI010426, D85806, AI028846, AI045509, AA894110, AA893817, AI008183, H33967, AA107123, AA685069, AA963620, AA859526, AA997451, AA874831, H39321, AA943496, AA550596, AA849991, AA943694, AI030760, C07070, AA685291, AI009724, D86672, AA963624, AJ007482, AA848468, AA848467, AA957421, H34360, AA901012, AI044651, AA894153, N65714, H36789, AA965023, AA996668, T04805, T46123, C06795, AA893278, AA892034, AA925284, AI010756, R61943, AA866335, AA900932, AA996923, AA997772, AA849825,

AA875253, AA924367, AI012418, AA850317, AA924449, AA925081, AA925965, AA957108, AA957649, AA926011, AA892461, AA943060, AI029973, Z36495, AA800915, AA891273, AA926052, AA943756, AA957185, AI028965, AI043956, AA957648, AA550338, AA849883.

SEQ ID NO: 449

15

 $\lambda^{\prime\prime} \cap T^{\prime\prime}$

AB002334, U53881, X91258, Z73307, AL022141, Y13619, AC002531, AF000986, AC002067, Y13618, Z49235, D12705, M37814, AB009801, AB011102, AF013994, AC000079, AA884499, AA284164, AA485240, R62283, N77782, D55907, H03910, R81382, Z30154, AA424252, AA283601, AA121309, AI025572, AA962253, AI004251, AA885519, N56823, N24401, AA368012, AA057815, AA657613, AA279167, AA523596, AA355729, AA807695, AA778319, AA714915, AA426051, W86568, H73918, AA458855, H97828, D45288, N39256, AA292707, N35075, AA872385, H81767, N22843, N77543, AA252109, H91720, AA742921, AA137146, W92746, N41004, AA765561, N20388, H12060, AA987884, N90453, AA794705, AA939766, AA217673, AA710704, AA096644, AA855480, AA123123, AA863940, C12945, T02625

MARKET LAND.

SEQ ID NO: 450

- AB002334, AP000046, X83719, L36453, U80678, X83721, U80029, L01902, X83720, U59823, L13934, Z73424, AC004513, Y13001, AF021875, U40421, AC002420, L01884, U59824, AF008958, L12624, AF040655, L21938, L21941, L36443, M83544, U67476, Y13013, X73124, AC003100, X89598, X91648, AF006605, AC005159, Z54270, AB011370, Z81035, AE000667, Z68000, U97405, AA732697, R34331, AA358170, AA833852, AA252581, AA213793,
- R34468, AA490173, R34353, T97185, AA292885, R61198, AA401718, T07867, AA039614, AA372590, AI040839, R63338, AA099897, R62976, AA453724, AA769045, AA774553, AA939302, AA046369, N20509, AA040932, H10046, F09133, AA854251, AA805822, AA890548, AA187489, AA554354, AI018779, N52869, AA040931, AI004712, AA099723, W89200, F00920, H12131, N59350, AA558555, Z21884, AA550953, AA219189, AA640439,
- 40 AA875891, H66333, AI016358, AI027786, R59332, M77996, AA227489, AA856726, AA993273, R49022, AA464745, AA687164, AA627198, AA203448, N37066, AA511424, AA645131, AA543906, AA815840, AA154089, AA637099, AA592204, AA692951, AA469486, AA543143, AA637522, AA726848, AA592225, AA739228, AA543314, AA850337, N97708, AA817874, AI009736, AI013648, AA567950, C44375, C93776, C10630,
- 45 AA549866, C42364, AA698867, T18073, AA957621, C23354, F14798, AA698522, C34260, T09817, C23134, AA957956, C59717, AA696412.

SEQ ID NO: 451

U64205, M80359, M83780, Z83868, Z83869, X97630, X57244, U73647, X70764, AC004299, L34260, L13688, U67194, L25785, Z25427, AC003003, AA290719, AA333580, AA320088, AA089778, AA301238, T78225, C02859, AA133557, R59342, AA151030, AA355307, AA364449, W90468, N62695, T86307, AA013064, AA283707, R12018, AA729649, AA741068, AA885078, AA033002, AA116439, AA920775, AA125070, AA764145, AA867040, AA254375, AA545411, AA940520, AA197991, AA033004, AA060127, AA656077, AA255255, AA500348, AA760017, C87483, AA624168, AA606638, AA638647, AA690532, W54061, AA103712, AA032650, AA052650, AA052650, AA652677, AA632677, AA638647, AA690532, W54061, AA103712, AA032650, AA052650, AA052677, AA232677, AA638647, AA690532, W54061, AA103712, AA032650, AA052677, AA232677, AA632677, AA6326

AA656077, AA255255, AA500348, AA760017, C87483, AA624168, AA606638, AA638647, AA690532, W54061, AA103712, AA032650, AA052505, AA239397, W64894, W81837, AA239088, AA684473, AA239618, AI006813, AA171315, AA466419, AA469586, AA799242, AA450554, AA008975, AA538510, AA623682, AA949338, T02689, H35550, AA925022, AA660849, AA946458, AA801231, C38991, C22918.

15

SEQ ID NO: 452

- 20 M80359, U64205, L22181, U80023, W73035, W73300, N53366, T87824, AA703093, AA160135, AA700887, R99177, AA707716, AA102559, AA969546, T71931, T90093, AA983859, D29560, R37874, H93969, H93970, N70406, AI026054, AA081085, W05032, AA775670, AA604551, F04119, AA522703, AA412299, AA642662, AA516359, AA805486, T82912, AA082201, AA627618, H09721, AA629064, H48830, H67287, F02748, R59343,
- R49054, T28619, AI025563, W89509, AA289395, AA163534, AA144462, AA289076,
 W71442, AA518727, AA518719, AA709818, AA050538, AA388749, AA118690, AA162350,
 AA561275, W64450, W59418, AA189997, AI046928, AA821475, C87479, AA986343,
 AA798557, AA408805, AA542000, AI019224, AA547301, C87597, AA982987, AA797982,
 AA710289, AA960512, AA049036, AA739082, AA254552, AA271421, AA924012, AI010191,
- 30 AA893247, AA900670, AA849965, AI010995, AA849510, AA850806.

SEQ ID NO: 453

35

- Z83095, X99226, AL022170, AD000092, M34057, AC002563, AA455885, AA455887, AA322137, T35075, AA769930, R01230, AA827188, AA504834, T93623, R60950, Z40208, AA059249, AA056948, AA026612, AA255659, H64787, AA644129, AA131038, W03848, AA045593, W88936, AA935237, AA347403, AA299759, W03716, AA463485, R54894, AA343783, R51347, R06563, AA705176, H97169, AA438387, R60775, N41041, AX86888
- 40 AA343783, R51347, R06563, AA705176, H97169, AA428387, R60775, N41941, AI039282, AA748863, N55087, AA449716, AA953485, AA261890, AA916390, AA215566, AA448570, AA496433, AA768771, R24008, R52329, AA085178, AA521274, AA926771, AA611607, AA734758, AA038257, AA562655, AA137906, AA537656, AA183983, AA881930, AI007060, AA607220, AA610870, AA590687, AA097760, AA929616, AA414333, AA546731,
- 45 AA717857, C77958, T26290, AA923936, AA818217, AA585881, AA849324, AA698914, AA819534, AA900108, C62635, AA567729, W16464, F19943, D24957.

SEQ ID NO: 454

Z83095, X99226, AF015720, AC004491, AD000092, AJ229041, AF020803, AA455887,

- AA455885, T35075, Z40208, AA644129, AA463485, AA326150, AA429596, AA699308, R07162, AA071065, AA830183, AA282097, AA765197, AA705568, AI052477, AA206839, AA322137, AA769930, AA736769, AA207089, R60950, Z45139, AA331966, AA333320, AA333042, AA337699, AA373228, AA758462, AA678235, AA927053, AA642465, F04204, R24008, R40966, AA521274, AA766823, R86112, N41941, R52534, AA721183, T24502, AA611607, AA038257, AA220520, AA171025, C81417, AA596090, AI007060, AA709887, AA919713, AA940172, AA052549, AA467017, AI010795, AA998153, AA966777, AA585881, AA923936, C62635, AA819534, AA900108, AA818217, R84205, T46224, H76960, C66418, D36526, AA849324, F19943, C65477, C62162, C61080, C60727.

15

SEQ ID NO: 455

AB002299, AC004224, X13329, L21502, U67466, Z17426, AC002068, AF008563, S75812, U32511, AE000865, AF029844, AF037119, AC004318, L21506, AB013898, U80953, Z38112, AE000738, Y09048, D21259, X74481, L02417, AC004653, Z69893, AF005383, Z81132, U86698; L04466, U94331, AC004810, AC001229, AC004072, AC002343, AB008264, C. (1986) AA493600, AA723996, AA853297, AA381531, N55525, AA627410, N64706, N94447, N64706 25 AA421306, AA644011, AA887216, W16779, AA126601, AA987191, AA757377, AA826566, AA426086; N76390, H38308, AA437148, AA757482, AA809224, H38316, AA283112, AA758267, R98945, N71722, AI018374, T93140, AA502767, AA779456, AA322933; AA581572, AA010188, H38309, M78340, H38498, Z74661, AA537969, AA793095, had a great and the AA073083, AA030855, W33967, AA726370, AA060956, AA684147, AA546069, AA499463, AA272189, AA272102, AA207974, AA795998, AA561705, AA033155, W64274, AA895365, AA856149, AA797925, AA689951, AA645011, AA636189, AA553102, AA474521, AA238892, AA122947, W30514, AA989817, AA592443, AA986322, AA726859, AA718489, AA619395, AA611539, AA474876, AA250685, AA210112, AA166172, AA086700, AA032790, AA880240, AA710338, AA672032, AA656059, AA655728, AA542396, AA518796, AA450439, AA288803, AA198240, AA155012, AA140074, AA086655, AA068416, AA794462, AA789390, AA727210, AA692565, AA670613, AA623778, AA104727, AA989798, AA560549, AA560256, AA435097, AA242178, AA166480, AA138743, AA104888, W53189, W13203, AI049019, AA870051, AA821440, AA820026, AA792831, AA771112, AA727470, AA690610, AA655847, AA655681, AA560192, AA545993, AA543989, AA396471, AA276976, AA271239, AA154698, AA117175, AA117072, AA033090, AA000904, W64839, W50720, AA870063, AA656386, AA543626, AA212017, T21648, Z34200, AA842684, AI012393, AA965105, AA965100, AI013736, T00419, F14070, AA852055, D66739, N98037, AA037901, AA605834, AA675765, AA817511, AA697935, AA892562, N43435, AA440814, W63412, AA784200, T20467, T43072, N97262, AA650703, AA257585, N60216, T37345, AA598358, W99504, T45190, 45

AA802187, AA550545, W06044, AA892049, AA042534, N82355, Z26399, T62417, R90184,

T14059, T45287, C74674, L38092, W99755, AA067394, W00304, N81434, W66347, H37329, T20660, AA740028, C73279, N52102, AA585945, T13851, F14361, D42984, AA900649, AA394913, C63596, AA990883, L33618, W63532, N65650, N96396, AA520592, AA011989, T46663, T04120, AA901777, W63070, AA439791, AA011983, AA057899, AI009831, T13811, AA012415, AA965956, T04062.

SEQ ID NO: 456

10 AB002299, U27474, AL009029, AF067186, AB006704, AC005012, Z98755, Y13605, AC004760, U96629, U64858, Z74029, Z30192, AL008631, AB007646, AA608681, AA582845, AA640311, F20547, N67886, N67901, N24059, AA830972, W95887, AA976754, AA774596, AA213435, N58007, AA652125, H77550, AA630655, T70218, R00428, R40274, R45585, N35935, H82545, C00681, AA071400, AA251346, AA213727, T70308, AA278724, AA369697, AA278230, T80885, W72678, N20927, W90539, AA054950, AA244010, AA808383, AA102675, AA335748, AA312192, AA610234, AA255947, AA335454, AA152996, AA958993, AA389038, C87378, AA501323, AA217575, AA266434, AA388650, AA763965, AA458000, AA204053, AA764035, AA285614, AA821488, AA072175, AA185538, AA545067, AA591058, AA492935, AA896210, AA959499, AA034622, AA734999, AA537126, AA711168, AA168990, W42206, AA162285, AA212866, AA497691, W29509, AA104760, AA275807, AA285555, AA049208, AA796120, AA956668, AA143918,

AA740021, D37758, AA698742, T09707, AA394829, D76289.

不是 医髓膜性炎

25 SEO ID NO. 457

可解释的现在分词

THE PROPERTY OF LOS MAZZAMONAS ESTA ESTA Commence Commence The State of the S D63481, U77572, D83412, U97396, U82664, Z98762, D89216, X15723, U16362, M96362, AE000151, X01074, M80481, U84823, U90743, U84827, AF016052, U68536, X66370, AA614415, AA954810, AA908313, AA506437, AA131747, W19261, AA679753, AA962100, AA514635, AA330885, AA465711, AA131835, AA355811, AA583508, AI016171, AA932378, AA641850, AA593807, W91980, AA442732, W23709, AA628013, AA115409, AA729980, AA161067, AI028279, AA659720, R54966, H21354, AA016013, AA527556, Z38258, T35406, AA953344, AA292109, T97386, AA622354, AA587909, W88796, AA946816, W72744, AA040910, AA203494, AA234649, AA456350, AA707062, AA983240, N86057, AA292089, AA877552, R18589, W77923, AA479577, AJ003612, AA282342, AA995805, T07914, AA703208, AA736708, AA091752, T55828, W90263, AA448970, R73381, AA048686, AA792452, W84994, AA048691, AA020086, AA237631, W78466, W71946, AA792423, AA473361, AA199995, W91071, W62391, AA795909, AA612375, C88553, AA415416,

以高級的企業工門意志

为^于的基础的标准。在1951年

AA619257, W53503, AA718881, AA420201, AA203843, AA656512, W64858, AA671197, W62839, W87028, AA561767, W85515, AA073509, AA451121, AA794167, AA033370, AA286505, AA717320, AA117408, AA790330, AA597109, AA575704, AA943112, AI043972, AA685076, AA140851, C71852, AA264719, D22471, T43986, H21346, H76570, C49373, F15475, D23138, T43257.

M55905, M81055, J05130, AL010165, AL010134, X66418, AL010207, Z69717, AL010138, AC001657, AF022173, AF022174, AF039052, U40800, L09233, X77508, M26585, Z92546, AE000633, X57142, AA082620, H11826, H19387, AA337227, AA853459, T25984, AA332592, H07001, AA156521, AA625245, AA773718, T17473, T66752, T80865, -5-AA485259, N28605, AA134157, AA161756, W53107, AI020103, AA930850, AA210237, AA125366, AA106479, W29507, AI019436, AA118935, AA522202, D19505, AA056913, H76074, H34871, AA979812, N97693, T76733, N81254, AI013495, AA051862, AA660836.

10

SEQ ID NO: 459

M55905, L42914, Z68010, X95001, AC003099, AC002432, U79202, U79222, AL008710, U03843, AC003664, U79210, U79197, U79198, U79206, U20539, Z49637, Z68105, U79205, U79230, U79221, U79195, AF040641, U79207, U79209, AC004407, Z35639, U79196, U79211, U58744, X66485, U79215, U79200, U79194, U79190, U79189, U79204, U79193, U67558, U79199, U79188, U79223, AA877904, AA127749, AA913955, AA804544, AA826095, T87869, T17472, AA156095, T66751, AA101130, AI027567, AA853458, H15839, H11749, AA783031, AA934605, H68911, T79599, AA496055, R46791, AA887922, AA994515, AA229696, R20752, AA442710, AA883256, AA229604, AA229914, T70290, AA844103, AA771780, AA625121, T64331, AA360123, AA548642, AA348782, R86247, R66056, AA017432, N50126, H81869, N54973, N54960, N35840, H82168, H87197, T81480, R55663, AA617516, AA254205, AA882250, AA260460, H32730, T01832, C84870, L19204, C90683, AI007765, D33678, C91282, C94196, AA605383, AA495344, C92524, AA202521, 25 AA784907, AA141659, AA786226, AA056914, AA140887, AA955188, AI007696, AA899376, AA819171, C90256, N97890, AA550098, AI013107, C94204, C90028, C93742, AA540790, AA859332, C91045, AA850342, C69263, AA787439, AA141018, AI008748, C94422, AA694968, C92357, AA802406, AA540719, C94391, C65147, C66511, AA141665,

30

SEQ ID NO: 460

AA695145.

AF027302, AC000391, L04607, Y16595, Y16594, D84222, X73636, Y07826, L57504, Z54240, AJ229043, AF015262, U59806, AE000732, U66677, C19005, R18615, R18617, F07369, R34905, F07368, T79967, Z45987, AA197172, H01848, N95669, AA128396, AA480130, AA618486, N50784, AA974394, R60973, R61758, T16566, H43185, AA528201, AA573889, AA926795, AA535806, R73032, AA557158, N26129, W16581, AA314079, R67879, AA135045, AA902734, R07590, H16141, AA133721, AA469203, AA144398, AA014138, AA636681, AA921438, AA404181, AA656533, AI049168, AA218241, AA511948, AA108112, AA492849, AA756210, W42007, AA636285, AA624596, W36780, AA245034, AA207589, AA174611, AA689676, W83305, C77498, AA832881, AA636776, AA959560, AA672735, H31746, AI013494, C89840, C25665, D49064, AA951690.

AF027302, Z95113, U54796, AC002354, L00919, AJ002300, AJ002363, AC004752, — AA237011, U66677, AA197173, AI032729, AA255836, AA085751, N66858, AA577295, AA548626, W90495, AI000514, AA682839, AA716406, R41589, W22243, W90494, T53078, AA188680, AA486482, AA454511, AA858021, AA480130, AA485752, C02340, AA490597, S5 - Z41599, AA128396, AA593341, AA961984; R49296; F04921; R39338, T35869, Z29925, N95669, AA609022, AA490792, F03609, AA303320, AA663990, AA593333, AA366356, AA197172, T34547, AA400758, H01848, W86360, AA335935, AA927626, H66597, W46194, AA780826, AA332344, R59347, W38723, W26692, AA285267, N29146, AA618477, AA961739, AA777793, AA878908, N31374, AA868690, AA109093, C77114, AA840315, AA546776, AA930348, AA600513, AA207880, AA167977, AA032959, AA408896, AA674210, AA107897, W98977, AA286263, AA014214, AA542008, AA445835, AA066189, AA919445, AA409068, AA122622, W46048, AA815626, AA250553, AA563136, AA290523, AA108325, AA690964, AA600538, AI050353, AI020698, AA683894, C74097, T00284, AI012041, C13814, AA142305, C62713, C63247, D86665, AA949984, AA899054, AA875470, AA899258, C67535, AA494899, AI045445, AA818814, C60666.

SEQ ID NO: 462

M37197, U19891, U19892, U94785, Z49073, AP000014, AC004543, AC000127, X04385, U59224, AC000123, U42597, U52853, U68299, U52854, M27431, X04146, M25830, Z79639, AA765892, N83654, AA223308, AA100044, AA484511, AA283049, AA634187, AI016630, AA596750, AA063964, AA518499, AA798334, AA390729, AA550369, C57461, C59926, AA720137, C84168, C59547, AA900640, C11302, C30475, C56164, C34709, C37786, AA680666, AA741977, D68525, AA532317, C66747, D22540, C13170, T26233, D41962, AA898310, AA945262, D22870, AA193900, H37703, D22772, N74796.

SEQ ID NO: 463

30 M37197, U19891, U19892, U96076, AC002089, AC002425, Z99497, X06660, AF031078, AC000100, AL022393, L03398, U67513, M65062, Z36099, Z67756, Z36100, L27559, M14625, X13978, D16217, AL022159, Z93403, AC004257, AF030876, AC002540, U15177, AL022242, M86258, M58650, U29612, M86248, M59499, AD001502, X62658, M18832, Z81594, M33328, AF049132, N21190, AA830589, AA206030, N41412, AA927754, AA683615, AA830797, W45216, AA638996, AA223309, D25744, AA688007, AA453077, N27463, AA483722, AA885136, H82162, N77667, H97058, AA879468, AA625537, AA400667, AA361596, H97878, AA313982, AA902539, AA340994, AI034080, R60086, T10201, W73127, W39566, AA157717, AA173229, W02808, AA375528, AA984195, AA975541, AA158262, AA730142, AA902492, F07252, R54534, H08119, T41351, AA314891, AA349595, AA481164, AA486737, AA749052, H63007, AA947809, N23955, AA349619, AA746367, AA353291, AA213407, N30796, AA381509, AA664796, H15136, AI014347, AI032612, AA205950, AA578916, AA515634, AA062897, F08007, F12643, H66912, W81528, AA219009, AA077941, AA489971, AA635118, AA723690, H60661, N44806, N72051, AA076645, AA351205, N31614, AA172288, AA757945, AA777815,

F10598, T74533, D81766, AA078118, H04045, AA296601, AA279682, W23621, W00419,

AA651775, F10263, AI020934, AA244944, AA261519, AA645838, AA217444, D21457, AA545085, D18448, AA032924, AA198196, AA530381, W67020, AA274602, AA920929, C86225, AA623936, AA139293, AA123010, AA409795, AA050771, AA073953, AA543396, AA510284, AA162198, AA638596, C88310, AA422716, AA444686, AA208964, AA199030, AA666956, AA062351, AA759789, AA646855, AA177594, W85544, AA620178, D41819, AA651243, C71327, C46102, AA944451, AI008218, C68136, AA661400, W06567, AI045300, AA660603, AI030349, C57109, AA739808, AA080600, C31257, AA438549, C43603, C31455, C31807, Z14871, AF027374, AA890857, T42905, AA898178, C13393, AA040961, AA908081, Z26699, C23297, C12350, AA950008, AI007383

15

SEQ ID NO: 464

D63481, U82671, AB007139, Z99121, M17088, X05684, U12015, Z94043, U45325, M58445, H91413, AI017857, D52929, W68794, T05285, AA312234, D54423, W25176, AA041515, AA354144, W68768, M85461, R32250, AA405340, R56166, AA022972, AA100506, H39046, AA797079, AA791561, AA472419, W85599, AA919229, AA254085, AA404015, W91239, AA204542, W36054, AA184146, W84303, AA289140, AA178813, AA221956, AA032597, AA002410, W30539, AA170110, AI013875, AA949343, AA941639, AA494730, AA849864, AA949592.

SEQ ID NO: 465

30

D63481, U77572, D83412, D89216, X15723, Z98762, AE000151, U97396, X01074, U82664, U68536, U90743, AF016052, X66370, AA614415, AA954810, AA908313, AA506437, AA131747, W19261, AA679753, AA962100, AA514635, AA330885, AA465711, AA131835, AA355811, AA583508, AI016171, AA932378, AA593807, AA641850, AA953344, R54966, W91980, AA729980, AA115409, AI028279, Z38258, AA442732, AA995805, T07914, AA622354, AA946816, W88796, AA040910, AJ003612, AA292109, T97386, AA587909, W72744, AA448970, AA292089, AA707062, N86057, AA479577, AA048686, AA792452, AA199995, AA795909, AA612375, AA415416, W34713, C88553, AA943112, AI043972, AA685076, C71852, AA140851, T43986, D23138, T43257, D22471, H76570, C49373, F15475, AA264719.

SEQ ID NO: 466

M55643, M58603, L26267, S89033, S66656, M57999, L28117, L28118, Z47740, Z47737, Z47738, Z47739, Z47736, Z47735, Z47741, AF000241, M86930, D13719, L09064, AC004783, -5 - X61123, Z84479, Z46266, D16367, U00111, Z70286, AC003663, S76638, X61498, AE001057, J05394, U63737, X85237, AC000721, AC002503, U09609, U91616, M91436, M24354, AF014008, X71125, X78454, AL021837, U60317, U39743, L13466, AA085529, W94220, T47296, W56849, T53902, N41629, N54459, AA480154, AA731956, F08166, N84413, T05322, AA331545, AA164749, T08600, F06451, W25646, W63975, AA276822, AA596791, AA497639, AA981181, AA675005, AA061257, AI047975, AA832884, AA272062, AA509818, AA874464, W87199, AA003829, W70695, AA009052, AA124602, AA186000, AA567365, AA202061, AI044448, AA963796, AA696342, D33201, N96427, C82917, AA867896, AA867910, AA660206, Z47687, Z26818, AA802558, C83773, AA867941, C54606, C54343, AA556084, AA867919, Z18207, AA966839.

15

SEQ ID NO: 467

M58603, M55643, L26267, Z47737, S66656, S89033, M57999, L28117, Z47738, L28118, Z47740, Z47739, Z47736, Z47735, M86930, D13719, AF000241, L09064, U00111, Z70286, Z46266, X61123, Z84479, D16367, U60317, AE001057, X61498, AL021837, U63737, S76638, U09609, X78454, M91436, U39743, M24354, AF014008, AA085529, W56849, AA731956, N54459, AA480154, T05322, H59244, AA116033, T31186, AA620651, H59290, AA383275, D61080, W63975, AA981481, AA963796, C54343, Z26818, AA802558, C54606, Z47687, V Z18207, AI044448, AA966839, D33201, N96427, AA696342.

Marie San Carlos

SEQ ID NO: 468

- Z47744, M58603, M55643, D17144, S89033, S66656, M57999, L26267, L28117, L28118, Z47743, D13719, M86930, AF000241, Z49288, AC000117, X06285, U04164, M35323, L26487, U65146, X89493, AF076275, AA604987, W60987, AA854753, AA744551, AA831993, AA451716, N29625, AA258085, AA134528, AA134618, AA213622, H49196, R26146, AA213748, AA932631, W92694, AA256615, AA688426, H49385, T77886, R30924, T86845, R26360, AA576864, T53788, AA098834, H00310, H44239, H00357, Z36738, W72926, H44238, AA534057, W92693, W60355, T86858, R30875, AA921305, T77709, C18968, AA541794, AA625308, AA810086, D79816, AA083182, AA614109, AA991313, AA364984, AA687453, AA490741, AI041182, R94501, AA083294, AA577881, AA868298, AA878456, R48891, AA283812, AA283813, AA908775, N20359, AA635369, AA834129, AA873006, W44235, AA241119, AA120684, AA823082, AA120663, AA111026, AA739345, AA198339, W71113, AA231564, AA414667, AA220845, AA606399, AI020169, AI048311,
- AA170325, AA414143, AA290108, AA547154, AA438002, AA388801, AA469620, AA547484, AA189513, AA413923, AA062319, AA681268, AA414697, AA717322, AA681509, W34058, AA290098, AA058216, AA087236, AA684076, AI020159, AA939993,
- AA119778, AA178268, AA414353, AA210039, AA145095, C85301, AA858801, AI011845, C91044, C94358, AA875000, N82720, AA799993, H35157.

Z47744, M58603, M55643, D17144, S66656, S89033, M57999, L26267, L28117, L28118, Y15994, Z49288, AC000117, U65146, X89493, AF076275, U04164, M35323, X06285, L26487, AA604987, W60987, AA744551, AA854753, AA451716, AA831993, N29625, AA134528, H49196, AA213622, R26146, AA258085, AA932631, W92694, AA213748, AA256615, AA688426, AA134618, H49385, R30924, T77886, R26360, T86845, T53788, AA576864, H00310, H44239, H44238, W72926, AA098834, Z36738, AA534057, W60355, AA577881, AA687453, AI041182, AA364984, AA868298, AA878456, R94501, AA283813, AA725586, AA908775, R48891, AA083294, AA834129, N20359, AA873006, D79816, AA614109, AA635369, AA810086, AA490741, AA991313, AA283812, AA083182,

AA120684, AA241119, W44235, AA823082, AA120663, AA739345, W71113, AI020169, AA220845, AA606399, AA231564, AA414667, AA111026, AA858801, AI011845, C94358, N82720, H35157, AA799993, C91044, AA875000.

SEQ ID NO: 470

20

 $\{\gamma_{i},\dots,\gamma_{k}\}$

1.733

30.00

M58603, M55643, L26267, S89033, S66656, M57999, L28117, L28118, Z47740, Z47738, Z47739, Z47741, AF000241, M86930, D13719, L09064, AC004783, Z46266, Z84479, Z97876, D16367, U00111, J05394, U09609, X85237, M91436, U91616, AC002503, S76638, AC000721, X61498, AC004997, AE001057, L13466, M24354, X71125, AA085529, W94220, T47296, X61498, AC004997, AE001057, L13466, M24354, X71125, AA085529, W94220, T47296, AA507472, AA701348, AA767883, AA648492, H17207, H59290, AA558376, AA677464, R80854, AA206682, D61080, R34891, H59244, W60568, AA383275, AA357089, U66687, AA987746, H60893, AA420654, W63975, AA276822, AA596791, AA497639, AI047975, AA675005, AA832884, AA124602, AA003829, AA874464, AA272062, W87199, AA509818, AA67910, C54343, C82917, Z47687, AA867919, C54606, AA556084, Z18207, C83773, AA867941, AI044448, D33201.

35 SEQ ID NO: 471

Z47744, M58603, M55643, D17144, S89033, S66656, M57999, L26267, L28117, L28118, Z47743, M86930, D13719, AF000241, Z49288, AC000117, U65146, X89493, U04164, M35323, X06285, L26487, AF076275, AA604987, W60987, AA258085, AA744551,

- AA854753, AA831993, AA451716, N29625, AA134618, H49196, AA134528, AA213622, R26146, AA213748, AA932631, W92694, AA256615, AA688426, H49385, R30924, R26360, T77886, T86845, AA098834, AA576864, T53788, H00310, H00357, H44239, Z36738, H44238, W72926, W92693, W60355, AA534057, T86858, C18968, R30875, T77709, AA921305, AA780367, AA625308, AA541794, AA577881, AA364984, AI041182, R94501, AA283813,
- 45 AA868298, R48891, AA878456, AA908775, N20359, AA083294, D79816, AA614109, AA834129, AA490741, AA873006, AA635369, AA283812, AA810086, AA991313,

AA083182, AA687453, AA241119, AA823082, AA120684, AA120663, W44235, AA220845, W71113, AI020169, AA739345, AA414667, AA198339, AA231564, AA111026, AA606399, AA858801, AI011845, H35157, AA875000, N82720, AA799993, C91044, C94358.

SEQ ID NO: 472

AA085529, W56849, W94220, AA480154, N54459, AA731956, T05322, H59244, H59290, AA383275, D61080, T31186, AA116033, AA620651, AA085529, W56849, W94220, AA480154, N54459, AA731956, T05322, H59244, H59290, AA383275, D61080, T31186, AA116033, AA620651, W63975, AA981181, AA061257, Z47687, Z18207, D33201, AI044448, D68391, AA696342, AA963796, C54606, AA802558, Z26818, AA966839, C54343, N96427.

15 SEQ ID NO: 473

Z47744, M58603, M55643, D17144, S66656, M57999, S89033, L26267, L28117, L28118, Z49288, AC000117, L26487, U65146, X89493, AF076275, U04164, M35323, X06285, AF019074, AB009464, AA604987, W60987, AA744551, AA854753, AA831993, AA451716, N29625, AA134528, AA258085, H49196, AA213622, R26146, AA134618, AA932631, W92694, AA256615, AA213748, AA688426, H49385, R30924, T77886, R26360, T86845, T53788, H00310, AA576864, AA098834, H44239, W72926, H44238, H00357, Z36738, AA534057, W92693, W60355, T86858, R30875, AA921305, AA780367, AA625308, AA541794, AA364984, AA490741, AA687453, AA283813, AA577881, AA083294, AA878456, R94501, R48891, AA908775, H10173, AA834129, AA868298, T75200, AA614109, AA635369, AI041182, AA873006, N20359, D79816, AA083182, AA283812, AA810086, AA991313, AA402834, AA241119, AA120684, W44235, AA823082, AA120663, AI020169, W71113, AA111026, AA220845, AA606399, AA198339, AA231564, AA414667, AA858801, AI011845, C94358, AI044858, AA817922, AA875000, AA817920, AA799993, H35157, AI007661, N82720, AA924570, AA784644, C91044, AA851877, AA891276.

SEQ ID NO: 474

U23731, AL021408, Z81008, AF000119, AF032896, AB006706, AE000562, Z72884, U07562, U38538, L20297, AC000108, AA224461, AA206137, AA156076, AA311528, AA224287, AA130324, AA158181, AA338632, AA580830, N89422, AA227003, AA355760, AA367737, AA205217, AA356336, AA336684, AA157406, N84223, H14048, H70100, AA621821, AA655041, AA511182, AA098490, AA795478, AA003828, AA982787, AA990002,

AA049380, AA265250, AA518486, W53950, AA059526, AA530519, AA475369, AA544829, W98895, C19435, AA801990, T24344, AA802780, AA802033, C93914, C84010, AA787755, C91549, AA532229, C83842, C90225, C89939, C90623, C93063, C94006, C90912, AA698487, C89776, AA998709, AA966628, C91481, AA966780, T88561, AA950350, C92923, AA660951, AA850534, Z25995, AA202149, C84032.

D84484, Z68285, Z48230, M36868, X93204, X75356, Z59528, AL022401, AF036688, AA224462, W68083, AA155991, AA206138, AA042859, AA845618, AA846689, AA923669, AA156359, AA180086, AA130325, AA722400, N24090, AA535987, AA157528, AA157248, N94103, AA622128, AA588309, AA632045, AA125745, AA983663, AA916531, AA682611, W73348, AA136323, C74980, AA620380, AA136376, H18030, AA044410, D29077, N54857, H62216, N69283, AA039772, AA494394, R97615, R52831, AA524141, AA329465, T47023, R66459, AA136236, N53084, AA704526, AA807528, AA806739, H71338, W73468, T53532, Z39137, H78375, H16390, AA125866, H62313, AA136290, F04995, AA626812, AA224185, H09265, F04133, N72633, AA688174, T32098, W88884, H26244, AA025451, T47022, AA489215, AA204982, T53531, AA779662, AA541312, AA025965, H71390, AA770035, T31901, H95364, D57620, D57777, C16474, T53629, T53628, AA771817, AA229797, N47003, AA112758, AA985365, AA737183, C78301, AA738630, W08709, AA000380.

- AA183515, AA186150, C85200, W82711, AA178363, AA472734, AA120443, AA152752, AA067726, AA589139, AA617490, AA560182, AA137437, AA103614, AA052582, AA116656, AA791261, AA073097, AA259443, AA896587, AA795882, AA914479, AA646014, AA509451, AA033329, AA175895, AA986715, AA673448, AA717649, AA544011, AA389170, AA764535, AA855220, AA920032, AA987066, AA924642, D85577,
- AA925459, AA892107, AI012713, AI007691, H31397, AA996903, H32650, AA957220, D39275, C82794, C83650, C10185, D72728, D71532, D69161, D65762, T02162, AA950618, M79950, R05112, C36830, C10223, C25346, D65709, M80069, M79765, D72749, D70625, R03849, D72636, M80068, AA933355, D72047, M79981, D68900, AA786772, D71395, M79695, R04619, AA949575, AA786095, D72004, D69424, AA942258, R62015, R12016
- D72699, AA661114, D66659, D66743, R04006, M89127, T14566, AA495500, AA841347, AI018906, AI018967, AI018971, AI018983, AI018988, C08459, AA597677, AA550586, U92770, AF051113, AA739994, AA819088, AI018933, AI018997, C45151, AA840843, AI018970, T01777, T14365, AA525607, C30437, C34598, C54120, C55452, AA682177, AA728096, AI018932, AA528928, AI018973, U92773, C49170, AA840851, AA917246,
- 30 AA931026, AA999328, AI018982, AA517952.

SEQ ID NO: 476

AA846689, AA845618, AA923669, W68083, AA224462, AA156359, AA206138, AA535987, AA155991, AA722400, AA157528, AA157248, AA983663, AA622128, AA588309, AA632045, AA682611, AA130325, AA620380, N94103, AA916531, W73348, C74980, AA807528, AA806739, N24090, AA180086, AA044410, N54857, AA042859, T47023, D29077, AA494394, AA125745, AA524141, AA489215, AA688174, AA704526, H18030, R52831, AA541312, T53532, H71338, R66459, AA039772, H78375, AA329465, AA025451, N53084, H16390, AA136323, AA136376, N69283.

SEQ ID NO: 477

U23731, Z81008, AF036577, AC000108, AF032896, AB006706, Z72884, AE000562, U38538, U07562, L20297, AF000119, AA224461, AA206137, AA156076, AA311528, AA224287,

AA130324, AA158181, AA338632, AA580830, N89422, AA227003, AA355760, AA367737, AA205217, AA356336, AA336684, AA157406, N84223, H25390, T34532, AA362575, AA352967, H70100, AA621821, AA310538, H14048, AA655041, AA511182, AA098490, AA795478, AA530519, W53950, AA982787, AA059526, W98895, AA049380, AA003828, AA475369, AA544829, AA990002, AA265250, AA518486, C19435, H34672, AA999071, AA801990, AA802780, T24344, W06542.

SEQ ID NO: 478

10

D84484, AL023534, AC003052, AF026211, D90910, U23517, Z82287, AB010692, Z97053, U52112, Z68342, X03012, AC004740, W88792, N51697, AA535621, AA629359, AA580794, AA804326, AA917940, AA864355, AA862797, AA906006, R40383, AA371044, AA013401, AA782650, AA224185, AA770035, AA626812, H71390, H25390, AA779662, W73468, R97615, AA309562, AA129699, AA128863, T79976, F08443, R20194, R56563, F06396, AA279039, AA485328, H05851, AA809792, AA863400, AA515855, N35180, AA255896, AA324622, AA607994, AA710794, AA929608, AA611806, AA088978, AA168454, C85084, AA266859, AA450504, AA137437, AA052582, AA589139, AA103614, AA560854, AA617490, AA116656, AA008360, AA120443, AA152752, AA000380, AA571466, AA198469, AA797491, AA655766, AA546928, AA510411, W42224, AA944833, AI009004, AA955691, AA996686, C83650, C82794, C65116, AA735461, T00363, H33817, AA538872, C06579, AA536338, T23136, C06991, C82752, C83608.

高速扩张 美国第四日科

THE TAXABLE PROPERTY.

25 SEQ ID NO: 479

U23731, Z81008, L20297, U07562, Z72884, U38538, AB006706, AF000119, AC000108, AE000562, AA224461, AA206137, AA156076, AA311528, AA224287, AA130324, AA338632, AA158181, AA580830, N89422, AA227003, AA355760, AA367737, AA205217, AA356336, AA336684, AA157406, N84223, H70100, AA621821, H14048, AA655041, AA511182, AA098490, AA795478, AA544829, AA265250, AA475369, AA982787, AA990002, C19435, T24344, C89776, AA787755, AA802033, AA998709, C92923, AA850534, C91481, AA966628, C84032, C90912, C91549, C93063, AA532229, C89939, AA202149, T88561, Z25995, C94006, C84010, AA660951, AA966780, AA698487, C83842, C93914, C90623, C90225, AA950350.

SEQ ID NO: 480

D84484, AL023534, X03012, AC004740, U23517, Z97053, Z82287, AF026211, Z68342, D90910, AB010692, AC003052, W88792, N51697, AA629359, AA580794, AA535621, AA804326, AA917940, AA864355, AA862797, AA906006, R40383, AA371044, AA013401, AA782650, AA224185, H25390, AA129699, W88884, AA128863, F08443, R20194, T79976, AA482484, R56563, AA279039, F06396, AA255896, AA324622, AA384509, AA809792,

H05851, AA863400, AA515855, N35180, AA607994, AA710794, AA611806, AA929608, AA088978, AA168454, AA266859, C85084, AA000380, AA450504, AA198469, AA797491, AA681253, AA510411, AA546928, W42224, AA955691, AA944833, AI009004, AA996686, C65116, AA735461, T00363, AA536338, AA952087, C69126, AA538872, T23136, C65558, C12294, C82752, C83608, C06991, C06579.

X83973, AC004585, M92280, U32712, U61958, L25598, D63880, M31229, AC004002, X67320, U46596, X60325, U73644, AC002396, X89870, U72499, R62169, AA206573, H04110, AA135261, AA025528, AA218774, U69197, T31173, H17179, T31172, W28253, T74327, R95466, T06248, AA191685, AA209495, AA285302, T11250, T10730, AA877091, A3270608, AA813637, AA700898, AA918411, AA890493, U25927, AA156216, AA240112, AA270608, AA896810, AA153656, AA106767, AA003959, AA562089, AA104976, W82776, AA008221, AI007191, AA797994, AA396048, AA003400, AI034962, AA597427.

SEQ ID NO: 482

- X83973, AC004585, D63880, M31229, L25598, X67320, U32712, AC004002, U46596,
 X89870, AA218774, AA135261, U69197, T31173, T31172, H17179, AA025528, W28253,
 T74327, R95466, T06248, AA191685, AA209495, AA285302, H04110, R62169, AA813637,
 AA700898, AA890493, AA918411, U25927, AA156216, AA459760, D54000, N89478,
 Z44636, R60410, F08390, N58115, AA431856, W07774, AA114203, R20232, D52808,
- Z43059, Z43991, AA311575, AA405526, AA459219, H48630, N31359, F00826, AA305192, AA497122, AA448367, AA206301, T74440, R19619, H07059, F12465, W47095, AA488227, W31424, AA740349, W47600, AA240112, AA270608, AA153656, AA562089, W82776, AA104976, AA003400, AI007191, AA396048, AA797994, AA008221, AI013905, AA943884, H34847, AA955449, AA951973, AA818406, C19895, F14612, C35942, C27959, C83493,
- 25 C82637, AA848886, T23112, AA997204, C74327, AA180645, C07631, R03468, AI013797.

SEQ ID NO: 483

- AC004100, U69197, AA889669, AA609322, AA846829, AA157806, AA910279, H16250, AA191622, AA594141, AA034036, H11397, N45294, AA907298, N71642, AI017580, N22707, T15527, T89105, AA858303, AA931425, AA847184, AA658226, AA903241, AA160287, AA074277, AA610333, N51259, AA427905, AA541311, H96787, AA669068, AA206434, F10050, AA135198, AA135111, AA207148, AA135106, AA904093, AA747271, N67513,
- N66837, AA593048, Z41528, AA043331, T10553, AA578579, T11277, D20243, AA620459, AA741223, T94064, AA886271, AA704085, AA588415, AA043332, AA613110, R23931, AA090084, R00190, N31181, AA011069, AA283910, AA011068, D12113, AA281890, AA262686, T51762, AA020898, AA479483, AA479486, N98740, AA469362, AA599610, AA122290, AA083241, AA344624, AA980870, AA189964, AA924040, AA957243,
- 40 AA494753, AA041007, C94155, F15350, AA395308, C23188, AA944028, AI029279, AA585835, N65610.

SEQ ID NO: 484

45

AC004782, U36309, AB004665, AB004664, AF000266, AL008987, X82329, Z71533, X96722, U03376, L76927, Z81369, AA307147, W52616, R60274, H15631, AA192581, H17000, N70985, AA682302, AA229888, AA584468, AA188677, AA077563, AA632513, W52931, AA227128, R15324, AA073776, AA120131, AA543131, W75369, AA672153, AA797354,

AA171349, AA636861, AA107512, AA611943, AA529574, AA073101, C89406, C88751, AA155335, AA276545, AA794735, W91498, W41207, AA756021, AA396808, AA058091, AA920575, AA275684, AA198148, AI011366, AA433363, AA231846, W00769, C48684, T44800, C25954, N96608, Z37612, T22534, H34007, C62867, T88218, AA253580, AA067527, AA390238, T88530, C93064, N38560, C71320, D37215, T44514, AA224662, T42682.

SEQ ID NO: 485

U96150, AC004770, AJ000382, U43414, AE000793, D11352, Y15994, D45210, U56862, X94354, L36316, Z81057, D25216, AA416742, H17001, R60782, H15571, AA872017, D78731, AA872016, AA533831, AA486536, AA112946, AA458173, AA985699, AA438072, AA799270, AA073146, AA921642, AA901077, H32499, AA542582, N96729, D22134, Z26528, AA395112, AA586078, D41457, AA193962, AA915808, AA193969.

SEQ ID NO: 486

U48288, AL021447, L22355, AC002463, AB015478, Z46937, J00778, AC001226, AC004253, U24122, D90905, U61944, AL021066, AC003103, Y14023, U81834, AL023713, AA100515, AA836885, AA640759, AA773258, R38812, N27694, F04149, AI032861, AA019351, Z40684, H16394, AA011058, AA256783, AA722016, H84335, AA813571, H05979, AA857838, AA019363, R85734, H97233, N26688, AA483155, R42174, H84905, AA903721, AA290683, AA056241, AA018567, AA885127, AA190265, AA276751, AA273801, AA153214, AI020109, AA119459, AA999641, AA509268, AA109389, AA161638, AA508962, AA123529, C91548, D41056, C92760, D41219, AA161664, C25804, C23834, AA114518, D41055, R90293, AA395672, AA753858, AA917236, C41854, C64350, H36059, T75869, AA550210, C92570,

30 SEQ ID NO: 487

AC002073, AC002997, U82083, Z82217, AC002367, AC003080, U82213, AC004776, AB000877, AC002375, AB000882, AF029061, AC005201, L43411, Z93023, AC002496, AC002057, AC003667, U03115, AC003101, U66060, M96851, U96629, AC003957, AC000118, AF047825, Z70280, AP000021, Z92844, AC004112, AF030453, M63796, U14574, 35 AC000122, AL008631, U14573, AL008627, AP000015, AC002133, AC004598, Z68273, AC004778, X54486, AC002454, Z68192, AF039907, AL022158, AC005257, AL031005, Z97989, AF001550, AC002036, AC003098, AC005175, AF003529, AC003690, AF015725, AC004790, Z98750, AC000378, AC003044, AC004593, Z79996, AC002072, Z81315, AC003657, Z82097, AL008635, AP000036, Z82246, AL008630, AL022322, AC002456, AC002476, AF053356, L47234, AL021393, AC004262, AC004692, U91322, U57833, AC004552, AP000038, AC004752, U29953, AL008720, AC004076, U61224, AF064863, AF070718, AC003037, AC002401, L78833, AC004417, U61238, AC004074, Z68756, AD000812, AC004785, D00591, AA837616, AA251226, AA835824, AA748600, AA309354, T47389, AA084609, R98218, AA225273, AA451901, H29914, AA563770, AA601237, AA599063, AA492114, AA502098, AA410788, AA228778, AA767297, AA594043, AI049630, -AA664126, AA573213, AA058768, AA297666, AA176604, W02749, AA452887, AA581247, AA621381, AA503298, AA550850, AA515728, AA492105, AA405726, AA482928, AA877992, AA299589, AA525753, AA486277, AA662590, AA610381, AA984187,

AA626040, AA602906, AA622801, AA284247, AI049676, R64617, AA507822, AA984920, AA837686, AA846923, AA878431, AA302661, AA593471, H43771, AA995373, F13749, H63066, AA838091, AA904211, AA666295, AA251356, AA541532, N64587, AA077667, AA581895, AA668915, T93109, AA650365, AA714999, AA668896, AA018105, AA302660, AA946848, T09219, AA670132, AA714605, AA586667, AA548610, AA365586, AA516045, T50061, H64579, AA553409, AA582554, N73060, AA890060, H84003, AA772704, AA584765, T71936, F01666, AA502991, AA669054, AA487569, F03672, AA678950,-AA676971, AA823826, C88111, W64166, AA863851, AA415875, AA501297, AA517646, AA516629, AA516955, AA517461, AA501217, AA261001, C88193, AA474026, W61986, W51648, W64884, AA501128, C87864, AI042727, AA080273, W62276, W71684, W71517, C87922, AA465901, AI046782, C86532, AA867834, AI006950, AA920903, AA792326, AA260746, W40894, AA237411, AA462161, AA501226, C87438, AA476035, AA645522, AA407778, AA607939, W13408, W77222, AA518813, W64881, AA087147, W62377, AA683837, AA986140, AA177354, AA475815, W12097, C76778, C76558, AA152830, AA684275, C76554, AA387138, AA671993, AA821458, AA921291, AA200956, AA619556, 15 AA863761, AA270734, AA065758, AA880006, C76781, AA915628, W91721, AI042721, W62885, AA710415, AA856419, W41419, AA116250, AA501262, AA071830, AA215022, AA624943, AA177982, AA275969, AA738645, AA794525, AI036873, AA689887, R75183, AA177980, AA122637, AA268771, AA562623, AA138821, AI044039, Z69957, AA550283, H39426, W06387, H39330, W06750, AF064463, AA107123, AA799804, AA850419, AA923995, AA799820, H39389, H39328, AA996668, AA963620, AI008240, AA859703, H39321, H32137, AA997451, AA701791, D85580, AA893225, AA819889, AA943496, AA997061, AI030545, AA892475, AA956017, AA943260, AA891543, D35620, AA056877, C61478, C70634, H34360, AI028846, C06795, C23765, AA893817, C71265, AA943777, AI010688, D26633, AI045509, AA859161, AA538694, AA817007, AA819620, AI009750, AI013243, AA899195, AI008251, AA901012, AA819167, AA859997, AI029425, AA893903, AA945963, AA850360, AA943529, H33833, AA532283, AA851329, AA964505, AA943958, AA801439, H39351, AA925077, AA955715, AA956915, AA944747, H31386, AA550467, AA800630, AA800631, AA818477, AI009861.

SEQ ID NO: 488

30

X79828, U29498, X60156, M27878, AL022165, U28322, L32162, D31763, D89928, U28687, U38979, X71623, L76568, X92715, Z68344, L08442, AC004262, U56732, AF028840, AF027513, Y00850, U66561, U46190, U09366, AF003540, Z30174, AC000378, AL021918, X52332, U47104, D50419, X60155, M61870, AC003002, X60152, AC004104, L33260, L77247, Z96240, Z93096, U80440, M29580, AC000113, D10632, X60154, X78927, U37263, U46188, L75847, L81686, AF011573, M67509, U46187, U46189, AC003006, AC003673, AF052054, Y07759, AC004696, AC004017, AC003005, U90932, U90935, U46186, Z21707, L81865, U37251, U29503, AC003682, AA393862, AA903775, AA332448, H30708, AA333524, AA167752, AA083688, AA628082, AA534387, AA651748, AA295628, N25521, AA412491, AA196895, AA481082, W39561, AA312592, AI016262, AA448488, H19015, AA446808, AA412659, AA171328, AA170968, AA517408, W97817, AA427249, AA727092, AI050494, AI036616, AI048993, AA881067, AA980285, AA051182, AA510419, AA896560, 45 AI046649, AA674333, AA956996, AA999114, AA799834, F23057, AA945558, T42664,—— T41769, AA817734, C08312, AA417507, C36594, C39191, C57208, C07961, AA542664, D72647, AA892106, C07405, AA849949.

AC004587, Z95979, AC004791, Z93016, AC003108, Y10196, AC004149, AC002350, AC004645, AC003101, AA771779, N36929, AA342301, AA091511, T08758, AI042519, AI003444, AA501297, W61986, W51648, C87922, C88111, C86532, AA823826, AA516629, AA517646, AA516955, AA550283, AI008183, AA894110, H39389, H39328, W06387, AA963624, AA874831, AA942712, AI008350, AA859194, D86779.

10 SEQ ID NO: 490

X83973, AC004585, U32712, AC004002, X67320, M31229, M92280, L25598, D63880, X60325, X89870, AC002396, U46596, U72499, AA135261, AA025528, H04110, R62169, AA206573, AA191685, AA209495, AA218774, T31173, H17179, U69197, T74327,

- AA813637, AA700898, W28253, AA918411, U25927, AA890493, AA156216, N31359, AA305192, T74440, Z44636, AA431856, AA497122, R19619, W31424, AI038357, W47095, H48630, W47600, AA740349, N89478, D54000, Z43059, AA114203, H92941, Z43991, F12465, W07774, AA488227, R60410, AA206301, AA448367, H07059, N58115, AA311575, AA405526, D52808, F08390, AA459219, R20232, N72283, F00826, AA270608, AA896810,
- AA240112, AA153656, W82776, AA104976, AA562089, AA396048, AI007191, AA797994, AI034962, C50857, AA901553, D75642, C49624, C50401, AA950450, AA940795, T00343, AA951973, C35942, C45911, C83493, C82637, AA951458, M80085.

25 SEQ ID NO: 491

AF003386, AC004100, AA594141, U69197, AA889669, AA157806, AA846829, AA609322, N45294, AA191622, H16250, AA910279, AA034036, H11397, AI017580, AA907298, T15527, N71642, N22707, AA858303, AA931425, T89105, AA847184, AA658226, AA903241,

- AA160287, AA074277, N51259, AA610333, AA427905, AA541311, H96787, AA206434, AA669068, AA135198, AA135111, AA207148, F10050, AA135106, N66837, N67513, AA747271, AA904093, AA593048, Z41528, AA578579, AA043331, T10553, T11277, D20243, T94064, AA620459, AA741223, AA886271, AA704085, AA588415, AA043332, AA613110, R23931, AA090084, R00190, N31181, AA216135, D12113, AA281890,
- AA011069, AA283910, AA011068, AA262686, H38971, AA344624, AA677326, H42125, R25075, AA527445, AA846250, C00804, T51762, AA599610, T25862, AA469362, AA479486, AA991236, AI023397, AA020898, AA122290, AA161131, R95433, AA479483, AA677307, H23454, AA083241, AI032960, AA980870, AA667323, C85792, AA189964, AA763659, W64912, AA924040, AA957243, C57088, D65799, AA924029, AA494753,
- 40 C53054, C94155, F15350, C56060, AA859150, AI045999, C23188, AI029279, AA891808, N65610, AA391396, AA892687, AA585835, AA395308, C68374, C68890, AA944028.

SEQ ID NO: 492

45

X83973, AC004002, U32712, U61958, M92280, L25598, X60325, AC002396, U72499, X89870, R62169, AA206573, H04110, AA135261, AA025528, AA191685, AA209495, T11250, T10730, AA877091, T30286, AA890493, AA918411, AA156216, W31424, AA311575, AA896810, AA270608, AA003959, AA106767, W82776, AA562089, AA104976,

SEQ ID NO: 493 -

5

D50310, Z71630, U05954, AF051690, Z71629, Z21504, X12448, X64712, AF069716, U73107, M83179, X55390, Z38015, L33838, Z47069, AC005149, AA703243, AI018633, AA573290, AA910671, AA593789, AA205570, AA629751, AA664102, AA846727, AA218918, AA434521, AA664175, AA595249, AA053839, AA215707, AA521260, AA496420.

10 AA604363, AA053834, AA188001, AA443651, N30602, AA525154, AA869591, AA273535, AA870443, AA869420, AA636862, W41289, W53234, AA615508, W71646, AA879848, W62085, AA657275, AA032813, AA670695, AA237743, AA286476, AA562003, AI046124, R47167, AA685568, AA567879, H33765, AA686492, AA202312, AA264735, AA441475,

H35716, C26045, AI001296, AA538750, AA246371, AA391338, AA440321, AA567072,

SEQ ID NO: 494

20

S45828, X15209, X15750, X62880, M91452, M91451, AC004356, Z60755, Z75208, AA830609, AA379393, W92192, N26739, AA826782, AA513371, AA843735, AA312811, AA886891, AI051222, AA083024, AA678449, AA583756, AA081892, AA993208, AA872909, N75138, H68272, AA183474, AA590863, AA422807, AA824874, D34645.

SEQ ID NO: 495

THE TRANSPORT OF THE PARTY OF T

M77197, AB006701, U43491, Z74911, Z73899, U50068, Z50859, Z74912, U41765, M83665, AF044387, AF044392, AB013389, U69551, Z49912, AL021766, AB009055, U00040, AB004538, Z69660, AF041426, X62534, AF007544, AF044388, AC004080, AA425317, AA683559, N59179, AA496964, AA421774, AA463691, AA732495, AA425476, AA253038, AA091995, AA031701, AA043761, R96229, AA166980, R43145, R56119, AI003139,

AA191594, AA346169, AA813494, R20553, N54035, AA719828, H81379, N64011, W86389, AA887501, AA779217, F09611, AA973573, H99275, N39567, AA219621, N50991, AA992514, H05031, C86289, AA958839, AA666873, AA549530, AA717257, AA543538, D18482, AA466518, AA268389, AA423231, AA920513, AA821455, AA168433, AA067899, AA266880, AA914284, AA944030, AA531990, T37874, AA849553, C90208, C54137,

40 AI011413, D34422, D43403, C94424, C90924, C25657, AI008776, C93862, C92799, AA435480, C89648, C92327, D33646, AI008076, C89855, C92777, AA123611, T00139, C92804, AA549950.

45

SEQ ID NO: 496

U44731, M81128, M55542, M55543, M55544, M63961, M80367, X92112, U73641, AC002528, U80955, M21494, AA317362, AA564268, N88929, AA158924, W32064,

AA305909, AA100063, AA354725, AA424070, AA296543, AA044192, AA873192, H30148, AA311108, AA020729, AA001029, AA346038, AA181375, AA180017, F19272, AA011006, AA178935, AA216124, AA211749, F22790, AA179247, AA176349, AA100433, F22155, F19355, F18872, AA977460, F22796, F20284, F20425, AA878690, AA856166, AA921455, AA122936, AA880099, AA240404, AA709608, AA107742, AA218234, AA061741, AA222398, AA217704, AA990499, AA217738, AA717634, AA823282, AA204474, AA288216, AA098568, AA538440, AA870562, W71884, AA098205, AA915500, AA008041, AA008046, AA222205, AA880120, AA174774, AA822137, AA589084, F14828, F14838, AI011419, C41769, T09530, C60180, D66790, D66581, C71757, C28722, D65511, D65910, D66300, C49281, D65830, C29182, AA246802, L38527, C10192. 10

SEQ ID NO: 497

- U44731, M81128, M55543, M63961, M55544, AC002528, Z78141, J02940, U66047, M80367, M94362, X97986, U66083, M22403, AL022117, M55542, U12313, U96409, N88929, AA564268, AA317362, AA164464, AA471169, AA044192, AA044017, AA775579, AI041248, AA610352, AA486901, T96044, AA720926, H10090, AA486849, AA846414, AA856166, AA921455, AA107742, AA218234, AA222398, AA061741, AA003859, AA098205,
- AA098568, AA823282, AA538440, AA870562, AA915500, AI011419, C60180, T09530, D66790, D66300, D65910, D65830, C10192, D66581, D65511, AA536383, AA263187, AA439901, AA392881, AA696901, AA816944, AA817624, AA390654, C49069, C48177, AA201668, D35415, AA540403, AA264017, AA978840.

SEQ ID NO: 498

25

AC004242, AC004448, Z54073, Z76735, AC002463, U91328, L81878, U96054, U96061, U96050, AC003685, N27177, F10104, T88944, AA837803, T53321, N93216, AA843865, N27177, N93216, AA84386, N27177, N93216, AA843865, N27177, N93216, AA84386, N27177, N93216, AA84386, N27177, N93216, AA843865, N27177, N93216, AA843865, N27177, N93216, AA84386, N27177, N93216, AA843865, N27177, N93216, AA843865, N27177, N93216, AA84386, N93216, N93 AA424412, AA424458, AA838754, AA211589, AA015818, H86776, AA158925, AA832265, AA418333, AA017326, AA240404, AA189236, AA543396, AA920341, AA003062, AA874548, AA199129, AA104098, AA668026, AA673749, Z33771, H37732, AA057947, AA508912, AA925453, C83487, AA879378, AA879400, D66615, T37003, C57628, T38909, Z30529, AI043540, D86790, AJ225398, AA849454, C59318, C58653, C58972, C58359, C58782, C82631, C57954, C69079, C56577, C55666, C53627, C32300, AA224629, AI013551, 35

SEQ ID NO: 499 40

T00131, C68482, C72389.

U44731, M81128, M55543, M55544, M63961, M14780, AC004530, U80955, M21494, Z78141, U66047, M55542, X73481, M94362, M80367, AL022117, Z82270, AA564268, N88929, AA044192, AA471169, AA093767, AA112212, AA194375, AA197163, AA977460,

C05415, F19355, AA722990, F21329, AA197131, C04155, F19358, AA176402, F22749, AA856166, AA921455, AA240404, AA061741, AA218234, AA107742, AA222398, AA823282, AA098568, C41769, D65910, D65830, C28722, C71757, D65511, D66581, D66300, C10192, D66790, AA998183, AA978840, AA817094, AA392895, AA246366, D34248, T43766, AA441550, AA540403, C49870.

D87440, AC004518, AC004746, AC002492, AC002558, U14568, AC004217, AC004130, AC004648, AC005217, AC003692, AA076663, AA862163, AA973753, AA086464, AA076654, AA666296, AA934680, AA302963, T55213, AA559290, AA176114, N27329, AA970213, N27763, AA804379, AA634889, N25296, R24887, AA571753, AA863851, AA415875, W64166, AA823826, AA517646, AA516955, AA516629, C88111, AI042710, W51648, H39328, AI044039, H39321, H39426, H39389, AA923995, AA787276, AA550283, AA713366, AA803997, AA803962, U74116.

SEQ ID NO: 501

U44731, M81128, AF033097, AF045432, S78798, U66300, U39066, AF039698, Z97178, AA317362, N88929, N84781, AA093577, AA247964, N83168, N84718, AA856166, AA107742, AA921455, AA061741, AA218234, AA222398, AA098205, AA538440, AA915500, AA174774, AA823282, AA288216, AA204474, AA870562, AA098568, AF041408, AA660164, AA933363, AI011419, AA933116, C60180, T09530, D65830, D65910, D66581, D65511, D66300, C10192, D66790, AA660165, H07848, C93682.

SEQ ID NO: 502

AC005276, AC003685, AC004448, U95997, AL009031, AC002326, Z97053, K01892, Z54073, Z76735, AC004690, AC004242, AC003078, AC002463, X12724, AC004456, U96069, N27177, F10104, T88944, AA837803, T53321, AA843865, N93216, AA838754, L13822, AA211589, AA832265, AA424458, AA424412, T89653, AA870126, AA104098, AA596129, AA461746, AA512220, AA921098, AA668026, AA543396, AA920341, C72024, C71903, AI013551, AJ225398, AA849454, AA898284.

SEQ ID NO: 503

U44731, M81128, M55542, M55543, M55544, M63961, M80367, X92112, U73641, U40423, AJ223732, AC003040, S67033, U72963, Z86064, D17519, M60873, U63337, AA317362, AA158924, W32064, AA305909, AA354725, AA100063, AA424070, AA296543, AA873192, AA311108, H30148, AA020729, AA346235, AA001029, AA878690, AA122936, AA880099, AA709608, AA217738, AA217704, AA990499, W71884, AA880120, AA288216, AA717634, AA204474, AA222205, AA589084, AA174774, AA008041, AA008046, AA822137, F14828, F14838, AA246802, C49281, C29182, L38527.

SEQ ID NO: 504

45

AA934680, AA302963, AA559290, T55213, AA176114, AA682912, R24887, AA804379, AA634889, N25296, AA599920, W79504.

X56123, AF001392, AB002318, Z46906, U10098, L19268, AC004003, M63795, M81182, AL022333, X83489, M94203, M87312, L40489, L00727, X58528, L08835, D31413, R54389, AA099762, Z17354, W28594, R17242, R18442, H50977, AA366319, T27372, H44662, AA367335, AA471266, AA632282, H74172, H94644, AA417191, AA013971, AA718262, AA015516, AA065946, AA770839, AA615519, W34578, AA657201, W17813, AA793573, AA592093.

10

SEQ ID NO: 506

Z17354, N41568, AA065314, N40571, AA064900, R94522, AA235815, AA156605, AA761982, AA253420, AA782695, AA533810, R48828, AA064905, AA770145, AA927597, AA934740, AA907518, H65346, AA393991, AA233601, N35879, T99315, AA614739, AA065946, AA770839, AA276737, AA036069, AA413718, AA413955, AA087178, AA823743, W20930, AA073223.

20 SEQ ID NO: 507

X56123, AB002318, AF036708, U73167, U90094, AC004534, AC000066, AA617862, AA745041, R41303, T30851, T55498, AA523382, H79450, AA640020, AA741423, H53771, R41853, AI042398, AA604320, AA947238, AA522881, AA533714, AA076342, R54390,

- AA678226, AA470807, AA081011, AA934738, N20971, H79335, AA632282, AA131573, T55421, AA863150, AA604059, H94645, D19779, AA954917, AA076343, AA296715, R83719, AA353626, AA343126, AA015595, AA081221, AA334546, H51631, R96799, T85486, W22495, T20065, M85878, AA129429, T78812, AA443644, AA329315, AA402527, AA535670, W54749, AA245381, C77940, AA619299, W11109, AA815774, AA240557,
- 30 C77836, AA655265, AA451361, AA208883, W54171, AA920412, AA562035, AA518913, AA184813, AA518377, AA738720, AA259407, AA253634, AA797060, AA733912, AA796338, AA821471.

35 SEQ ID NO: 508

AA617862, R41303, T30851, AA741423, H53771, AA640020, R41853, AI042398, AA947238, AA604320, AA745041, T55498, AA533714, H79450, R54390, AA678226, AA523382, AA081011, AA470807, N20971, H79335, AA522881, AA632282, AA131573, AA934738,

- T55421, AA863150, AA604059, H94645, D19779, AA954917, AA076343, AA076342, AA296715, AA353626, AA015595, AA081221, R83719, AA334546, AA343126, H51631, T20065, R96799, T85486, W22495, AA129429, C77940, W54749, AA240557, C77836, AA815774, AA245381, AA619299, W11109, AA562035, AA920412, AA655265, AA451361, AA184813, AA208883, W54171, AA738720, AA518913, AA259407, AA253634, AA800962,
- 45 AA963186, R86448, T14710, T20839, D48023, T42380, C74816, Z18025, D48172, AI044816.

VI U ファ/U44Uつ 225

X56123, AF001392, Z46906, M63795, M94203, Y17586, L19268, L08835, M87312, L00727, M31118, J02649, X84651, U17193, U14172, M22724, Z17354, N41568, N40571, AA065314, AA523043, AA235815, T99315, AA253420, R94522, AA927597, AA393991, AA156605, W44635, H65346, AA770145, N35879, AA934740, AA533810, AA233601, AA065946, AA276737, AA770839, AA064134, AA823743, AA036069, AA413718, W20930, AA413955, AA087178, AA073223, AA738964, AA738577, AA237833.

SEQ ID NO: 510

10

X56123, AB002318, AF036708, U73167, AC004534, U72877, U90094, U41110, R41303, T30851, AA617862, H53771, AA741423, AA640020, R41853, AI042398, AA604320, AA947238, AA533714, W54749, AA240557, AA815774, AA245381, C77940, AA619299, C77836, W11109, AA655265, AA451361, AA562035, AA800962, AA963186, T46610,

N97287, H36233, AA395747, T76144, T20839, T14710, D48023, T42380, C74816, AI044816, D48172, R86448, AA978910, AI007653, N97212.

SEQ ID NO: 511

20

X56123, AB002318, AF036708, AC004534, U73167, U90094, AF016684, AA617862, AA745041, AA523382, H79450, T55498, AA522881, R41303, T30851, AA741423, H53771, AA640020, R41853, AA076342, AI042398, AA604320.

THE ELECTRONICATIONS AND ADDRESS.

25

SEQ ID NO: 512

THE PARTY OF THE P X56123, AB002318, U10098, AC004003, L26543, L23853, M82975, L09273, M83930, D31413, R54389, AA099762, R17242, R18442, H50977, T27372; H44662, AA367335, 30 AA471266, H74172, H94644, AA452483, AI028611, N53073, AA970963, T74344.

SEQ ID NO: 513

- X56123, AF036708, AC004534, AB002318, U73167, U90094, M30511, M35324, S74059, U53569, AE000647, R41303, T30851, AA640020, AA617862, AA741423, H53771, R41853, AI042398, AA604320, AA947238, AA533714, R54390, AA678226, T55498, AA523382, H79450, AA470807, AA081011, N20971, AA745041, H79335, AA632282, AA131573, AA934738, T55421, AA522881, AA863150, AA604059, H94645, D19779, AA954917,
- AA076343, AA296715, AA076342, AA353626, AA015595, AA081221, R83719, AA334546, 40 H51631, AA343126, T85486, W22495, AA129429, T20065, R96799, AA443644, T78812, AA864764, N53004, W48656, AA599769.

SEQ ID NO: 514 45

X56123, AB002318, U10098, Z00027, X61367, X02803, Z50120, M81182, X58528, AL022333, X81123, X83489, L40489, U67156, D84476, Z77163, X82190, X60985, M85183.

X56123, AF036708, U90094, U73167, AC004534, R41303, T30851, H53771, AA741423, AA640020, R41853, AI042398, AA604320, AA947238, AA533714, R54390, AA678226, AA617862, AA081011, AA470807, N20971, H79335, AA523382, AA632282, H79450, AA131573, T55498, AA745041, AA934738, T55421, AA863150, AA604059, H94645, D19779, AA954917, AA522881, AA076343, AA296715, AA353626, AA076342, AA015595, AA081221, AA334546, R83719, H51631, AA343126, AA129429, AA443644, T78812, N27755, N77887, W94236, AA329315.

10

SEQ ID NO: 516

AP000015, U01229, AB010266, M89651, M20187, AC003046, U88317, AC004455, M58588, U12620, AA190743, AA446042, AA187765, AA251942, AA070973, T12175, Z28837, AA095263, AA297663, AA248612, AA286738, W79190, AA248318, AA374275, AA905643, AA375387, AA375075, AA128252, AA147519, AA039871, Z28788, AA176681, R05983, N24510, W01709, N76809, AA056996, T82969, AA013342, T28951, R06553, AA683199, AA912663, T66800, AA017284, AA018380, AA285584, AA274436, AA080145, AA106812, AA107465, AA978573, C09443, T04550, AA660481, C57194, AA539959, AA901489, R03466, C57793, C60067, C32813, C56422, C38913, C38374, D71946, C37666, C36970, C37432, C35082, C34873, C33593, C32700, AA996525, C31743, C23990, C11668, D34905, AA997395, D71488.

TABYL NOOT IN

25

SEQ ID NO: 517

AC004593, Z71187, AF072897, AF003130, Z98977, D85144, AA887587, AA573374, AA429894, AA039871, AA609693, AA128252, AA041470, AA070974, AA758806, W74455, AA026161, AA702826, AA845873, T78267, W25088, AA558142, W79190, AA128310, AA864348, AA187765, AA298500, Z24831, AA853034, AA905600, Z25193, AA446042, AA912741, AA029405, AA621462, AA070810, AA873244, AA181975, AA248612, N88589, AA905746, AA297663, T32497, AA057693, AA147519, AA564951, AA090057, AA026707, F01034, H84765, Z28837, Z19219, R17237, AA179599, AA375030, R82265, AA669099, W74720, AA727541, AA717607, AA276566, AA795287, AA717606, AA510328, AA796002, AA638632, AA795992, AA796003, AA080145, AA106812, AA285584, AA275392, AA274436, AA709830, AA467325, AA645913, AA522178, AA200990, AA215170, AA763583, AA067855, AA671613, AA254647, AI014019, C70194, C67526, N82551, AA849721, AA850360, C43975, D43217, C28123.

40

SEQ ID NO: 518

U41387, U22665, AL023704, AC005159, X16986, Z97339, AF075598, X15684, AC002492, Z82288, U50137, U59435, AB012246, AC004016, U92844, AL023814, AA314858, AA308981, AA100679, AA133576, AA545766, T18589, AA133577, T35498, AA308544, AA181561, AA161498, AA453744, R53263, AA674489, AA873991, AA153278, AA645800, AA796669, AA117400, AA219998, AA790234, AA289213, AA109788, AA881220, AA645936, AA762755, AA898732, AA788262, AA686127, AA294063, AA695135, AI007440,

AA685709, AA686442, AA960726, AA799672, AA686609, AA933514, AI030724, AA784464,

SEQ ID NO: 519

U41387, AF064859, U42841, U95737, AC005215, AL008636, AC003971, AC004101, Z70682, Z81538, X06308, Z95329, AA639234, AA243645, AA088842, AA669838, AA284467, AA453808, AA128764, AA128763, AA873045, AA436235, AA574344, AA724717,

AA640981, AA813445, AA716639, AA722998, AA453893, AA887949, AA283605, AA736609, AA836346, AA824480, R74688, AA672435, AA123122, C85192, AA267815, AA739635, D32390, D32599, D34114, AA141300, AA520882, M80184, AA842705, N98036, AI013621, AA750909, T09621, AA550655, AA800790, C94478, AA042747, C12900, C91154, AA001583, D36567.

15

SEQ ID NO: 520, 521, 522

U30872, U19769, U25725, AC002071, U62026, U29615, AF058919, Z95703, AL021474.

20

SEQ ID NO: 523

L06237, X60370, X51396, Z29519, X67778, M83196, X66840, M30270, M30271, AC000385, U38292, D86978, U38291, AL008711, Z81066, AE000410.

京集製鋼 医400mm

SEQ ID NO: 524

L06237, X51396, X60370, Z67736, AB010077, Z61460, X67778, AA564629, W22414, AA984109, W28421, W27855, W28105, W26436, W25928, AA650363, AA102502, W29026, AA504701, AA111983, AA083718, AA912012, AA037860, AI033363, N50670, N88650, T55410, AA908935, AA707373, AA231294, W35860, AA793048, AA637587, AA920512, AA920495, AA755484, AA444883, AA409078, H31241, AA395128, AA201483, AA978748, AA951418, C82641, AA783290, C83497, AA012719, AA012773, AI043282, C61164, 35 AA949923, AA012678, AA893180.

SEQ ID NO: 525

40

L06237, X51396, X67778, U52950, X60370, M30270, AC002297, AC002295, Y14568, AF067607, Y10512, M97477, AA663039, T08382, F12058, T78361, H16377, AA100029, N87281, AI039749, R79923, T98690, AA530716, AA645968, AA656277, AA667643, AA168421, AA073597, AA250558, AA144582, W64789, AA250041, C45631, AA946497, AA520211, AA519102, AA849858, AA979288, AA520297, AA660331, AA532013,

AA519214, AA520225, D23332, AA519912, AA192037, AA742018, AA741784, AA741869, AA264183, AA997435, AA519152, AA192061, C26731, W35667.

网络 的统

SEQ ID NO: 526

L06237, X51396, X60370, X67778, D86978, Z67736, AF028339, X87635, S81773, Z61460, U50396, AC003013, AB007648, X83580, X69138, AB010077, W22414, AA564629, AA984109, W28421, W26436, W27855, W28105, W25928, W29026, AA650363, AA102502, AA912012, AA504701, AA111983, AA083718, W40515, AA219045, AA037860, AI033363, H99609, AA324177, N88650, AA017578, AA680024, AA908935, AA077556, AA707373, AA231294, W35860, AA637587, AA920512, AA536775, W36170, AA619991, AA920495, AA444883, AA755484, W57042, AA285874, AA409078, AA458300, AA793048, AA066697, AA839691, AA289862, AA562632, W85127, AA590098, AA409812, AA030944, AA571682, AA238992, AA458190, AA816067, AA118112, AA509393, AA986850, AA615852, AA544051, AA791722, AA816047, AA221748, AA222986, W41052, AA530638, AA710117, AA529489, AA986880, AA898732, AA788262, AA686127, AA294063, AA695135, AI007440, AA685709, AA686442, AA960726, AA799672, AA686609, AA933514, AI030724, AA784464,

SEQ ID NO: 527

AA858459.

15

L06237, X51396, X60370, Z67736, AB010077, AF023460, Z61460, AA564629, W22414,
AA984109, W28421, W27855, W28105, W26436, AA650363, W25928, AA102502, W29026, AA504701, AA111983, AA083718, AI033363, AA037860, AA120899, AA707373, AA231294, W35860, AA920495, AA637587, AA755484, AA793048, AA409078, AA920512, AA444883, H31241, AA951418, AA395128, AA978748, AA999088, AA201483, AA893180, AA801113, T41873, R03716, H37273, AA012773, C65763, C61164, AA067478, C44711, C69224, AA012678, AA949923, AA012719, AA783290.

SEQ ID NO: 528

第四回 双坡斯地名美国

Y13537, X70672, AB005554, Z19574, L78811, AB012240, AC001530, AA223139, AA355262, AA319397, AA333714, Z45759, AA287603, R20567, AA022991, AA435513, AA774585, AI004443, AA460142, AA602372, F19634, AA461185, AA346094, W86961, W72923, R13844, W94217, AA723271, D82556, AA663506, H08555, AA247414, AA449686, W22305, W78856, AA358091, AA758662, W76476, AA235142, W92947, R43867, D82452, W79591, AA918818, W92367, T33810, AA163859, AA387139, AA655548, AA793418, AA870492, AA270947, AA691478, AA542374, AA153558, AA712836, AA712793, D39880, AF054448, C65634, D69635, D39890, AA841965, AA736083, W43422, AA824811, D39923, N98004, N96290, AA696686, F14708, AA817863, T00933, AA228154, N96208

10 m - 15 mg 1 - 21.

40 SEQ ID NO: 529

AC004031, AF012871, U74670, U41556, AF012868, AF012869, U49426, AF034762, Z98941, AA706552, AA195388, AA195257, AA194059, AI032600, AA807922, AA631609, W96149, AA888146, AA128526, AA701257, AA677383, W96282, H21675, AA724198, H25808, AA722414, D60312, H25767, AA223140, AA910055, AA203733, D80704, Z41408, D81423, C15473, R51558, H21676, AA341132, AA194077, AA319397, AA714509.

X16515, L22021, U81153, Z46266, Z74037, Z99281, AC002299, AC004703, L78833, AF000261, U82083, AL021472, Z73897, AL009048, AC003960, L10351, Z95125, AF067949, X65054, Z77666, M77191, M19152, U14634, U07603, M55629, L63545, AF044870, Z82258, U09500, AB005240, X51582, X62996, Z80901, AF044862, Z83237, D38112, Z83218, AF003135, X93334, V00662, U67538, Z82071, AF026212, AF016682, D66906, J01415, U40160, L09247, AF014939, AF044869, U46100, Z93382, AF044866, Z93018, AA418425, AA242889, W03015, W25672, AA384085, AA455417, R16931, AA991639, N77368, N87364, T84421, AA741182, T82821, T10388, T98370, AA503577.

SEQ ID NO: 531

15 AC004525, AC002430, AC003047, Z96050, U63721, U62293, AC002527, AF001548, AC004750, AC004000, AC004216, AC002994, L78810, AC002312, AC002302, AC004542, U91318, AC004685.

20 SEQ ID NO: 532

AF042416, AF000967, AC000373, AC005153, W28244, AA354316, C05280, AA318047, AA249758, Z19174, AA481880, AA355471, D80624, T20263, R19801, AA362032, AA362508, AA587580.

SEQ ID NO: 533

- AB010693, AC002425, L08835, L00727, X82822, X05861, AC001228, U28374, AC003982, U39674, AL023533, AC005257, AC002302, U41018, Z83745, AC001142, AP000010, AC005221, U51281, AA022760, AA229815, AA279617, W61327, AA521356, AA933693, AA327640, AA339452, AA150758, AA780200, AA811639, W92986, AA229651, AA953083, W61328, AA279975, AA132092, AA022624, AA996286, Z20110, Z19175, AA229209, AA228413, AA251050, W27821, AA584677, AA704918, H48224, R85851, R81693, AA501450, AA334197, AA906348, H66169, AA705333, AA215982, R37208, H44630,
- AA301450, AA334197, AA906348, H66169, AA705333, AA215982, R37208, H44630, N35896, AA034141, AA366990, AA534947, AA476626, AA584752, M86142, H68177, N20066, AA167018, AA431922, AA913549, W25524, AA177103, AA494194, AA723282, AA001418, AA493902, AA913114, W32760, H02400, AI039256, AA594229, AA599723.

40 SEQ ID NO: 534

M81890, D87011, AF001549, D87009, X69465, AB006684, Z93023, AC000024, M86351, AA079560, AA486992, AA641426, AA865212, AA988957, AA626571, R69215, Z43987, W23956, AA164280, R44480, H19173, R07885, AA644681.

SEQ ID NO: 535

X64143, M81890, Z61938, Z93023, K02827, M11610, AF020688, U83619, AF020687, AF020686, X02265, X83681, X69516, U02714, AA865212, AA641426, AA985306, AA486992, AA076652, AA534510, AA293408, AA399477, Z25115, AA648342, AA955004, W19887, N91693, Z43987, AA284346, AA164280, AA644681, AA731439, AA317138, AA960796

SEQ ID NO: 536, NR, X16515, U97209, U97205, U35413, AB008265, D86995, U97208, U97206, Z69782, U97207, AC002090, L81775, AC003988, U90441, L09247, U46100, U62738, AC002380, AC004629, Z68500, X93334, S72904, X62996, U09500, V00662, X77825,

AC000365, D38112, AL022097, M55629, J01415, Z32681, AE001179, AA431044, AA991639, 10 T10388, AA037576, AA723030, AA502034, D54939, AA194604, AA487686, AA659344, AA502487, AA193059, AA180918, AA610163, AA935460, F20808, AA095036, AA657662, F22234.

15

SEQ ID NO: 537

AA811439, AA252033, N72273, AA610861, AI041703, H49544, AA741182, R16879, T98371, N55362, AA455417, T90000, T84421, T82821, T98370, AA418425, R16931, AA459285,

- AA128977, AA504562, AA434037, AA459514, N77368, AA490845, AA410834, AA442182, 20 H38772, R94289, AA694572, AA568459, AA677600, AA081138, R17077, T90646, T90660, AA205107, H09253, N51714, N51383, AA873540, AA223542, AA884235, H62538, AA406358, W79816, AA608743, AI032812, F03919, AA988713, AA857925, AA347678, R09155, F10039, AA358343, AA101731, AA527619, AA805444, H49641, AA533957,
- 25 AA533378, AI014798, AA906947, N81069, AA618471, AA618417, AA488802, AA228349, AI003742, AA938396, T06704, AA640842, AA572953, AA342141, AA586459, H30037, N23840, AA565426, AA477053, AA533545, N38806, AA569178, AA837756, AA856954, AA258889, AA258786, AA132765, N54301, AA527893, R02545, AA612810, AA593516, AA768555, T62623, AA644545, AA983416, AA652861, AA629769, AA847097, AA569737,
 - 30 AA602954.

SEQ ID NO: 538

AB008264, X66098, X66097, AC004781, AA223385, W00659, AA299364, AA147874, R19569, AA248406, AA316289, AA197226, AA091120, AA773852, N55059, AI000381, F08533, AA744486, AA093550.

40 **SEQ ID NO: 539**

Z85994, AC002038, Z92546, AC002467, Z83823, X95646, AF020798, Z75537, AC003071, AF043196, AF002996, M76981, D50354, Z49908, U55373, Z70684, L18877, D50345, D86203, AA147837, AA007624, AA024558, AA976598, AA164679, AA946802, AI031793, W90030,

AA025311, N26243, N68960, AA165076, AA071166, AA480601, AA128165, AA804439, 45 AA687145, AA854484, AA551651, AA761586, AA229403, AA223303, AA125978, D11848, AA909934, AA765037, R02332, R02434, AA814220, AA319268, AA773852, AI051799, AA458967, R12500, AA862852, N70346, AA814638, AA703113, R62453, AI040743, AA703006.

Z49250, L42305, X58470, U41456, D90745, X14336, D85144, X59771, L81891, AE000210,
J04358, U21330, AA290723, AA573499, AA731091, AA283710, AA927565, N95583, AA694439, AA324714, AA379483, AA805306, AA774869, AA379994, R14378, AA214396, H47665, AA001405, W95192, AA043190, AA721753, AA641598, AA627345, AA702321, N28912, AA446322, AA415277, AA171097, AA444428, AA000614, AA738699, AA940013, AA717988, W64914, W10683, AA833125, AA762162, AA197530, AA981760, AA718011, AA119104, AA096888, AA221937, AA982781, D77216, W53574, W09810, AA914615.

SEQ ID NO: 541

- 15 AC002452, AF003140, AC002382, U41624, AF017732, AF001851, Z69719, AC004525, AA608559, AA811390, AA595663, AA178965, AA827242, AA834531, W31918, AA744475, AA643270, AA292001, AA515015, R44662, AA047466, AA969032, AA864694, AA768335, W24955, AA278457, AA768162, AA293263, AA369891, AA749083, N63305, AA369890, AA663654, T62232, AA085886, AA813873, AA429145, AA047400, D20621, T31504,
- T89930, AA133203, H49462, AA664771, AA748050, AA846097, H80913, AA075576, AA534371, AA809339, AA948590, N21055, AA137871, AA189391, AI035905, W10608, AA117687, AA199092, AA014518, AA272907, AA238467, AA517207, W80106, W71353, AA636204, AA929877, AA644860, AA797414, AA102898, AA517326, AA832978, W61948, AA166486, AA137744, AA645939, W54331, C90619, AA925997, AI010497, AI010681,
- ²⁵ T01768, AA996526, AA257229, AA697409, C89764, H35524, C90373, C93878, C92770, C91930.

SEQ ID NO: 542

30

U13847, L08924, J02675, M12159, U66885, L08817, U03461, M20189, X67019, D90714, L08921, U87107, M11320, L08922, Z49250, U03460, X67018, X02306, AE000178, L08923, U03459, U41456, X14336, X58470, J04358, D90745, D85144, L42305, AE000210, U21330, X59771, AE000675, AA573499, AA283710, AA731091, N95583, AA290723, AA694439,

3、"我也会有管理的。""。"

- AA927565, AA805306, AA774869, AA379994, R14378, AA305260, AA214396, H47665, AA043190, F13037, T08367, N28912, AA627345, AA702321, AA344594, AA721753, AA446322, AA415277, AA171097, AA444428, AA982781, AA000614, AA717988, AA940013, W53574, AA718011, AA221937, AA833125, W10683, W09810, AA914615, W64914, D77216, AA738699, AA197530, AA762162, AA119104, AA096888, AA955830,
- 40 H33467, AA052021, AA007704, AI044010.

SEQ ID NO: 543

45 AC002452, AF003140, AC002382, U41624, AF017732, AC004525, AF001851, Z69719, AA608559, AA811390, AA595663, AA178965, AA827242, AA834531, W31918, AA744475, AA292001, AA643270, AA515015, R44662, AA047466, AA969032, AA864694, AA768335, W24955, AA278457, AA768162, AA293263, AA369891, AA749083, N63305, AA369890, T62232, AA663654, AA085886, AA813873, AA429145, AA047400, D20621, H49462,

T31504, T89930, N21055, AA290571, AI000395.

- 5.

SEQ ID NO:588

L07872, L34544, L34543, S63463, X17459, M81871, L07873, L08904, X59130, X59129, U60094, U60093, M81869, Z36843, L07874, L07875, L07876, M81866, M81867, M81870, M81865, AC002502, X58337, U49795, U49794, M94383, X66728, X58393, X65871, Z71185, AB003695, AC000100, AA101254, AA171575, AA332410, AA081973, AA101350, T67576, T19153, AA547961, R44578, F01398, U69195, T23712, R37405, D58647, AA429185,

AA971158, R71133, AA948444, AA379373, AA770375, AA836690, AA811802, AA806363, AA496170, AA080102, AA104575, AA110087, AA111451, AA104058, AA098398, AA104601, AA389459, AA087347, AA407529, AA655129, AA870247, AA098304, AA415317, AA111471, AA110512, AA104790, AA542353, AA107448, AA500811, AA517402, AA072168, W36221, AA619786, AA682146, AA200846, AA038054, AA562718,

20 AA637070, AA817421, AA736032, L46413, C12590, C73485, AA924572.

SEQ ID NO:589

- L34543, L07872, L34544, L08904, S63463, X17459, M81871, U60093, U60094, M81877,
 D90168, M64933, D90170, D25323, AF016494, L19394, AA701607, AA042864, AA641661,
 AA640106, AA483607, AA069672, AA903408, T67414, AI023923, N95392, AA788576,
 AA171398, AA101255, AA676341, AA169326, AA669918, AA101351, AA908462,
 AA044415, AA678797, AA126685, AA156824, U69195, AA705248, R12509, T23713,
- F05151, R19314, AA092442, T70135, AA705236, R57841, T61464, AA491057, AA501219, AA895510, AA052401, AA221065, W41110, D18981, AA522251, AA986473, AA946131, AA850747, AA945522, AI013632, AI014061, AA148327, AI008946, C24294, AA945480, AA858592, H33313, R46988, AI009864, AI010102, AA943376, AA924151, C47318, C74680, AA899268.

35

SEQ ID NO:590

- L34543, L07872, L34544, L08904, S63463, X17459, M81871, U60094, U60093, AF016494, D89933, AF038391, M29237, D31888, M22835, Z71502, D86977, AA701607, AA640106, N95392, T67414, AA042864, AI023923, AA641661, AA483607, AA069672, AA101255, AA676341, AA788576, AA169326, AA101351, AA908462, AA044415, AA171398, AA903408, AA678797, AA156824, AA669918, AA705248, T23713, F05151, U69195, R19314, R12509, AA705236, AA126685, R57841, AA491057, AA501219, AA895510,
- 45 AA052401, D18981, AA522251, C87048, AA986473, AA002573, AA924151, AA943376, AA899268, D35942.

L34543, L07872, L34544, L08904, S63463, X17459, M81871, U60093, U60094, M81877, M64933, D90170, D25323, D90168, AF016494, AA641661, AA701607, AA042864, AA640106, AA903408, AA483607, AA069672, T67414, AI023923, N95392, AA171398, AA788576, AA669918, AA101255, AA676341, AA169326, AA101351, AA908462, AA126685, U69195, AA678797, AA044415, R12509, T23713, AA156824, AA705248, R19314, F05151, T70135, AA092442, AA969666, R45471, AA234950, W25228, R16902,

H19326, AA235124, AA935398, F04242, AA705236, AA233367, AA232981, T79039, AA160334, AA563914, AA897714, T61464, AA928817, R44692, T32446, T16534, AA501219, AA895510, AA052401, AA221065, W41110, AA986473, D18981, AI008946, AA858592, AI009864, AI014061, AA945522, AA945480, AI010102, AA891259, AA946131, AA850747, C74680, AI013632, AA148327, H33313, D35942, AA899268, AA924151, AA943376,

15 AA057899.

SEQ ID NO:592

L34543, L07872, L34544, L08904, X17459, S63463, M81871, M81876, M81877, AA641661, AA701607, AA903408, AA640106, AA042864, AA483607, N95392, AA126685, AI023923, AA069672, T67414, AA788576, AA101255, AA676341, T70135, T23713, F05151, AA169326, AA171398, U69195, R12509, R19314, AA101351, AA044415, AA935398, AA669918, H19326, AA969666, W25228, AA235124, R45471, R16902, AA234950, AA705248, F04242, AA233367, N99612, H18155, AA424744, AA594925, AA774998, AA501219, W97394, AA941118, AA696703.

SEQ ID NO:593

30

L34543, L07872, L34544, L08904, S63463, X17459, M81871, U60093, U60094, M81876, M81877, AF016494, Z71265, AA069672, AI023923, AA042864, N95392, AA788576, AA701607, AA641661, T67414, AA171398, AA101255, AA676341, AA169326, AA101351, AA903408, AA640106, AA908462, AA044415, AA483607, AA156824, AA669918,

AA678797, U69195, AA126685, AA705248, T23713, R12509, F05151, R19314, T70135, AA092442, R57841, AA705236, T79039, T16534, AA897714, AA928817, T32446, R44692, AA501219, AA895510, AA511219, AA986473, AA052401, W74810, D18981, AA891259, AA924256, AA924151, AA943376, AA899268, C74680.

40

SEQ ID NO:594

L07872, L34544, L34543, X17459, S63463, M81871, L07873, L08904, X59130, X59129, U60094, U60093, M81869, Z36843, L07874, L07875, L07876, M81866, M81870, M81867, X68227, M81866, M81870, M81867, M81867, M81867, M81866, M81870, M81867, M81867, M81866, M81870, M81867, M81867

45 X58337, M81865, U49795, U49794, AC002502, M94383, X58393, AB003695, M81868, U22418, Z15005, Z71185, AC000100, AA101254, AA171575, AA332410, AA081973,

AA101350, T67576, T19153, AA547961, R44578, U69195, F01398, T23712, R37405, AA429185, D58647, AA948444, AA971158, R71133, T95219, H66386, H49719, H66535, W84832, R00639, AA203664, W90492, AA806363, AA811802, AA496170, AA428549, AA379373, AA836690, AA770375, AA080102, AA123811, AA655129, AA104601, AA389459, AA104575, AA104790, AA110087, AA087347, AA111471, AA110512, AA111451, AA104058, AA870247, AA542353, AA107448, AA098398, AA407529, AA098304, AA183659, AA817421, C12590, AA736032, AA818143, AA800931, C73485, AI009770.

10

-SEQ ID NO:595--

L34543, L07872, L34544, L08904, X17459, S63463, M81871, U60093, U60094, M81877, M81876, U66059, U07978, D25323, AA641661, AA701607, AA042864, AA640106, AA903408, AA483607, AA069672, T67414, AI023923, N95392, AA171398, AA788576, AA669918, AA101255, AA676341, AA169326, U69195, AA101351, AA908462, AA126685, AA044415, AA678797, R12509, AA156824, T23713, T70135, AA705248, R19314, F05151, AA092442, AA969666, R45471, W25228, AA235124, AA234950, H19326, R16902, AA935398, F04242, AA233367, T79039, AA705236, AA232981, R57841, R11284, AA501219, AA052401, AA221065, AA522251, AA986473, AA967290, W41110, D18981, C74680, AA943376, AA924151, AA899268, D35942, F14238, AA057899.

SEQ ID NO:596

25

L07872, L34543, L34544, L08904, S63463, M81871, X17459, U60093, U60094, M81877, M81876, L07873, AC003986, U58757, AF036696, U07978, D90168, AF016494, D90170, U85198, M64933, AA641661, AA701607, AA903408, AA042864, AA640106, AA483607, AA069672, AI023923, T67414, N95392, AA669918, AA788576, AA171398, U69195, AA101255, AA676341, AA169326, AA126685, AA101351, AA908462, AA678797, AA044415, R12509, T23713, T70135, AA705248, R19314, F05151, AA156824, AA092442, W25228, AA969666, AA234950, AA235124, H19326, R45471, R16902, F04242, AA935398, AA233367, AA232981, T79039, AA705236, R57841, T61464, AA169765, AA174104, AA310871, AA501219, AA895510, AA052401, AA221065, AA148327, C74680, AI014061, AI013632, AA850747, AI008946, H33313, AA998132, AI009864, AA945522, AA946131, AA858592, AA945480, AI010102, AA924151, AA866343, F14238, AA097174, AA943376, AA899268, D35942, AA057899, H33820.

40 SEQ ID NO:597

AF003001, U40705, U74382, AF043911, U65586, U70992, U70993, U70994, AF022794, Y08905, Z78062, AC005220, U00921, X67841, AF040571, AC004022, AC004356, S78260, Z99287, Z98880, Z45971, Z19923, F13251, AA467846, AA468251, AA468235, T76958, AA143672, R71273, AA053348, N31972, AA926904, H42443, R68195, T90873, AI038855, N31985, AA399211, AA936307, W04528, AA834965, AA529658, AA103157, AA756846,

W90959, AA141049, AA294496, AA618872.

SEQ ID NO:598

- 10 X62309, Z75115, AC004609, U60981, U64837, Z49907, Z82195, Z85999, AC004475, Z72488, AA467901, N68057, AA135978, AA135764, AA463246, T76958, R70911, AA467846, F13251, AA317158, AA207271, T63517, R68526, AA468251, AA204808, R25990, AA122171, AA084663, AA085094, AA129187, AA076496, AA205778, AA932416, AA954256, AI024113, AA074080, AA132239, AA744582, AA740566, AI017413, AA860885, AA019029, AA013185,
- 15 AA529658, AA982217, AA980925, AA073811, AA563324, AA145872, AA798241, AA537448, AA986704, AA591084, AI043071, AA111749, AA839469, AI042865, AA106200, W08572, AA789592, AA104989, AA105901, AI035296, AI043053, AA068696, AA562128, AA122501, AA869031, C76786, AA673813, AA217034, AA647070, AA432419, AA146527, AA546210, AA760152, AA413194, AA529872, AA245574, L26814, AA433046, AA789517,
- AI036388, AA755609, AA495447, AA942845, AA597431, AA041093, AA041150, AA042294, T46728, AA395569, Z30088, C08922, AA395573, T21481, C40564, C51441, T20852, H37005, AA658796, T46390, AA451595, AA192037.

25 SEQ ID NO:599

- U40705, AF043911, AF003001, U74382, U65586, U70993, X93511, L63545, U70992, D83257, AC004484, U47029, AC002433, Y17297, J04806, X16151, Z47809, AB010068, X13986, X51834, S78177, D84394, Z36238, U39650, AC003663, Z48618, U21099, M27674, U03980, Z72673, X80836, Z72675, L16560, AA467901, N68057, AA467846, AA135079, AA467846, AA
- Z72673, X80836, Z72675, L16560, AA467901, N68057, AA467846, AA135978, AA135764, F13251, T76958, AA463246, AA468251, R70911, Z45971, AA468235, AA317158, AA207271, Z19923, T63517, R68526, AA204808, R25990, AA122171, AA076496, AA084663, AA129187, AA085094, AA954256, AI024113, AA074080, AA932416, AA740566, AA205778, AA132239, R71273, AA744582, D60549, T16205, R12806, H42443, AA834965, AA926904,
- AA013185, AA019029, AA142896, N31985, AA936307, R25132, AA865406, N21157, AI017413, AA159666, AI038855, AA838062, AA569371, AA740956, AA860885, R68195, H02507, AA143173, AA969795, AA928532, N22437, N31972, AA529658, AA103157, AA982217, AA122501, AA980925, W08572, AA798241, AA839469, AA789592, AA986704, AA105901, AA563324, AA145872, AI043071, AA591084, AI035296, AA073811, AI042865,
- AA562128, AA537448, AA111749, AA869031, AA106200, AI043053, AA104989, AA068696, C76786, AA673813, AA432419, AA217034, AA647070, AA942845, AA495447, T46728, AA597431, AA752361, AA042294, AA041093, AA041150, C08922, AA395569, Z30088, AA395573, AA856242, H37005, AA451595, C51441, T43684, C39930, T36345, C39943, C40564, C90893, AA658796, AA651440, T46390, AA651575, AA192037, AA294496,

45 AA618872, T21481, AA141049, T20852.

バ *い フフ*/ひせんひご

M63167, X65687, M80675, Z75263, AF029308, AC004118, U18262, AC003970, M68651, U39667, AC002368, AF039720, AA449097, AA464153, AA780192, AA410624, AA910628, 5 AA504155, AA041305, AA642889, AA779598, AA323762, N59091, AA641572, AA775924, AA419297, AA494485, H44692, R87744, AA293630, AA328833, H44470, AA593626, H20505, AA235684, AA864467, T27622, AA043078, R20913, AA040851, AA464217, C04703, AA063612, AA808084, AA641279, F00510, AA283669, T03388, AA642689, AA630466, AA029628, C01998, AA506129, M78924, AA011575, H03551, H39037, R87811, AA782531, AA044077, AA056416, AA887954, F00033, AA029653, AA887952, AA814959, 10 AA622342, AA287197, AA147226, AA683561, AA082094, AA477383, AA922963, N59496, AA284493, AA477135, AA411074, R72069, AA618360, AI016521, AA610329, H38458, AA506017, AA411861, H03465, AA454688, AA456335, R20800, R72116, H96391, AA449529, AA041329, AA877759, H44436, AA927813, N32976, AA011602, AA700978, AA988346, H01966, H67192, AA309612, AA626434, T39728, AA169456, AA164806, AA904790, R98618, H67180, AA988124, W72647, AA646329, AA003121, AA415535, AA186148, AA647701, AA528969, AA270159, W45884, W40915, AA981343, AA273536, AA163540, AA413890, AA597275, AA139683, AA153254, AA798907, AA144007, AA959146, AA666794, W83421, AA500374, AA647916, AA636884, C89408, AA014488, C76913, AA386898, AA516946, AA117672, AA007846, AA020412, AA073660, AA996919, 20 AA799664, AA998057, AA417500, AA933471, AA224616, AA933239, N41234, AI052884, AA068384, AA990965, AA890884, C83287, C82431, C43259, C65815, D49302, C72699, AA946375, AA892800, C40998, T14784, AA990930, C47753, C63880, C72049, AA996446, AA998751, AA956224, AA996966, AA998090, AA955672, AA787384.

SEQ ID NO:601

M63167, AC004361, M68651, Z83316, Z35640, AF040644, U42846, AA323762, H44470, AA449097, R20913, AA464153, C04703, AA780192, AA328833, AA410624, AA464217, F00510, H44692, H03551, AA235684, AA642889, AA494485, AA293630, AA779598, N59091, R87811, AA041305, AA910628, AA775924, R87744, AA504155, AA641279, T27622, H20505, AA593626, AA011575, AA044077, AA642689, AI016521, AA630466, AA808084, AA506129, AA887952, AA887954, AA147226, AA040851, AA029628, T03388, AA056416, AA641572, AA063612, AA622342, M78924, AA419297, N59496, C01998, AA043078, H39037, AA864467, AA082094, AA683561, AA411074, AA922963, AA283669, AA029653, AA454688, AA782531, H96391, AA411861, AA814959, F00033, AI040215, AA459455, H82393, AI038676, AA457137, AA486486, AA609695, AA972069, AA428831, AA603467, AA455220, R38120, W25052, AA287149, M91502, W07854, AA927813, AA981343, AA007827, AA050689, AA413930, AA789712, AI035716, AA041329, AA410353, AA981343, AA007827, AA050689, AA413930, AA789712, AI035716, AA048410, AI035710, AA020215, AI035569, AA500374, AA386898, W83421, AA924676, AA550539, AA925622, AA294289, D33598, AA787384, C25717, T20639, AI012376, C84815, D34101.

U82108, AF004900, Z50150, AF035771, M87526, H27184, R72257, H49053, AA144402, AA900990.

-5 - SEQ ID NO:603----

U82108, AF004900, Z50150, Z49911, F18486, AA160897, AA886424, W69654, AA524367, AA708236, AA846337, AA340577, AA573832, AA304111, H92982, AA583013, AA993608, AA047804, AA887591, AI019541, AA253870, D18378, W40828, W48532, AA945746, AA925147, AI013713.

SEQ ID NO:604

U82108, AF004900, Z50150, AF035771, L48775, AF015926, AF036241, U74079, U19815, Z80233, L26338, AF058302, M24282, AF054151, U31613, H27184, R72257, H49053, AA777814, AA777937, N48381, AA117781, AA763778, AA116517, AA821504, AA871706, W30479, AA869710, AA870376, W12132, AA239009, AA137750, AA672660, W91102, AA739216, AA871767, AA087651, AA142803, AA900990, AA942825, AA892164,
 AA964990, AI028957, AI030602, AA893047

SEQ ID NO:605

U82108, Z50150, AF004900, AC003685, AC002504, AC002457, Z64771, AF022933, Y11397, U41107, S82821, Z49911, Z73988, H92982, AA304111, W69654, AA573832, AA846337, AA886424, AA340577, AA583013, AA524367, F18486, AA160897, AA993608, AA708236, R72015, AA047804, W48532, W40828, D18378, AA253870, AI019541, D41796.

MANAGER MEN HAMBAGAN MAN

SEQ ID NO:606

30

U11313, M75883, S52450, M55421, M75884, AF051897, S80339, M58287, X60654, M57454, M62763, M57453, M34728, AC004659, K00915, U73444, AC005142, AC004159, M91458, D84394, AB009054, Z99297, M91457, D21160, AE000555, Z92540, X15442, U41396, Z95326, U11584, U30821, Z33185, U37541, M30487, X03154, M11317, Z99943, AC004401, AF002196, AC004768, Z81547, U41995, L36897, U41038, Z93778, AF016420, Z34799,

- AE000664, AA659242, AA771708, AA662425, AA771727, AA872200, AI052484, N78410, AA815316, AA857869, AA781279, AA857652, AA781559, N22960, N30183, AA664009, N90729, AA279302, H43347, H14631, D57094, N62639, D58010, D20134, AA256445, AA164663, N78672, D56619, AA515632, AA551997, H43309, AA551782, D56709, AA704925, AA888556, D57577, F03114, AA007228, D57140, D58128, H70634, AA846663, D58347, AA617994, D56920, D57698, D57820, R35652, D57082, D58061, D57120, D57125,
- 45 AA283364, D56852, AA937827, D56836, C16276, AA283359, D57010, AA283357, T29679, D57100, AA781584, AA452761, AA102128, AA452582, R85824, Z19870, R19294, H14925,

AA781652, T81784, AA807361, H54781, AA588095, H62481, AA521141, N99975, AA908948, AA877421, R35318, AA909516, AA628322, AA683359, AA960968, N59478, M62031, AA346154, H67890, AA160940, AA404276, AA701593, AA744496, AA346159, AA588866, AA702222, AA885231, D60659, AA985969, AA710456, AA270378, AA987062, 5 AA987039, AA222745, AA980411, AA116764, AI042674, AA237939, AA512371, AA597138, AA146030, AA250148, AA271455, AA822085, AA277481, AA060006, AA647999, AA409774, AA727826, AA500860, AA986025, AA409893, AA617156, C88281, C86463, AI046451, C76618, AA617132, AA968323, AA423273, AI042921, C79031, AI042898, AA277564, AA986047, AA107970, AA986223, C88922, W81997, AA797756, AA562250, AA881445, W29818, AA881830, AA060198, AA960086, W44023, W10482, AI047695, 10 AA655196, AA738953, AA023888, AA014206, C85955, AA177230, AA671953, AA733648, AA763383, AA073872, AA170317, AA656768, AA688784, AA718634, C86134, AA980874, AI037502, AA397222, AA204225, AA921283, AA388462, AA682045, AA738625, C87067, AA066144, AA098173, AA111142, AA139069, AA162244, AA183226, AA709815, AA710950, AA763388, AA245126, AA153119, AA265244, AA395938, AA511462, AA833140, AA617004, AA799151, AA869220, AA183836, H32123, AA901345, AA942880, AA891692, AA942879, AA943820, AI007887, AA925866, AA859990, AA925217, T09855, C25635, AA956558, AA858978, AA109394, AA997238, AA216499, AA471607, W51558, AA842216, AA257173, AA280502, AA842069, AA283564, D33621, AA275442, AA627003, R47663, U95104, AA275444, C92065, AA454439, AA627042, D64315, AA550461, N43502, N43377, AA955403, AA257415, AA216473, AA275425, H21330, C84111, AA161551, W51626, AA925872, D43539, N21815, C93146, AI044396, N98036, AA754396, T21828, C50233, C84859, AA955653, H48206, C06628, AA945519, AA943664, C42677, AA925371, VASO AA925 C44729, C84185, AA963072, AI010434, AI013950, N97751, AA800843, AA926358, H64223, 185, AA96 D72917, C08524, C08811, C46650, C83852, C91163, AI046276, D26869, AA497257, C45777, AA COSS 25 AI012269, C84020, T00757, C40463, AA850728, AA925185, C90324, C90671. DOLENSKE TO

SEQ ID NO:607

30

U11313, M75883, S52450, M55421, M75884, AF051897, M57453, S80339, M62763, AC004659, U73444, K00915, AB009054, AC004159, D84394, AC005142, M11317, X60654, D21160, Z92540, AE000555, M30487, AC004244, Z99943, U40948, U20864, X03154, M57454, U41396, Z81558, M58287, U37541, AC004401, U11584, U41038, Z93778, AF015262, Z34799, L36897, U28737, AJ229043, AF002196, AF016420, Z81547, U41995, AF039042, AB015477, AC002983, X06438, AF007270, Z35595, AC004768, AA659242, AA771708, AA662425, AA771727, AA872200, AI052484, AA857869, N78410, AA815316, AA781279, N30183, AA781559, AA857652, N22960, N90729, AA279302, AA664009, D57094, H43347, AA515632, AA164663, N62639, H14631, D58010, D56709, AA704925, AA256445, D20134, AA888556, N78672, AA551997, D56619, AA551782, H43309, D57140, AA846663, D58128, D57577, D56920, D57698, AA007228, H70634, F03114, D57082, D58347, AA617994, D58061, D57120, D57820, R35652, AA283364, D57125, D56836, D57010, C16276, D56852, AA937827, D57100, AA283359, AA283357, T29679, AA781584, AA452582, AA102128, R85824, T81784, AA452761, AA781652, R19294, Z19870, AA807361, H14925, H54781, AA588095, H62481, AA521141, AA588866, AA346159, AA702222, H67890, AA346154, AA744496, AA404276, AA701593, H93140, N29716,

AA035332, AA666280, AA708286, H22937, AA526208, AA628322, AA908948, AI049915, H78237, C16510, AA846528, AA861646, AA356066, C88281, AA617132, AI042921, AI042674, C86463, AA617156, C76618, AA985969, AA968323, AA647999, AA271455, AA250148, AA987039, AA710456, AA986025, AA060006, AA980411, AA277481, 5. AA409774, AI046451, AA146030, AA759818, AA822085, AA222745, AA512371, AA597138, AA116764, AA270378, AA987062, AA237939, AA500860, AI042898, AA727826, AA423273, AA409893, C79031, W81997, AA797756, W10482, W44023, AA986223, AI047695, AA655196, AA738953, W29818, AA014206, AA516915, AA960086, AA023888, AA881830, AA060198, AA277564, AA980874, AA073872, AA763383, AA461946, AA671953, AA111142, AA122868, AA139069, AA166200, AA833140, AA189967, AA271868, AA395938, AA511462, C80303, AA710950, AA763388, AA245126, AA881579, C88643, AA986047, AA105260, AA177230, AA255029, AA268661, AA555766, C81310, AA727103, AA960262, W65231, AA106275, AA869220, AA119053, AA086609, AA623154, AA667292, AA688784, AA546062, AA796545, W61767, AA170317, AA265244, AA183836, AA285878, AI007887, AA945519, AA925866, AA943820, H32123, AA901345, T09855, AA942880, AA925217, AA858978, AA859990, C25635, AA956558, AA441654, AA440159, AA275425, AA842069, W51626, AA539951, AA694892, N43377, AA951614, N43502, AA275442, AA951114, AA567107, AA454439, AA696740, AA949523, AA280502, AA216473, AA263396, AA735334, AA695189, AA257415, AA264633, AA735385, AA696541, AA842216, AA439683, AA627003, AA627042, AA735477, AA201669, C92065, C84111, 20 AA440628, AA820729, H21330, AA950141, AA538832, AA390770, AA550461, AA471607, AA216499, AA109394, AA997238, AA952273, AA875744, AA802386, AA540855, AA697030, AA275444, AA942879, AA955403, AA951929, R47663, AA264352, W51558, AA275444 AA891692, AA597409, AA754396, C84859, AA956504, AI012269, C84185, H48206, AA597409 AA926358, AI046276, D72917, H64223, C83852, D26869, AA042566, C84020, AA858751, 67045276. AA850728, AA925185, Z25690, N97751, C91163.

SEQ ID NO:608

M75883, M75884, AF051897, M58287, X60654, M62763, M57453, M34728, M91458, U11306, U11307, U11309, U11308, M55421, S52450, M62361, U11304, U11303, U11305, X91155, L09231, M57454, M91457, U11310, Z93375, X97685, X95443, X86694, AE000746, AC004407, U41550, U12439, AP000046, U41993, Z99291, U20861, AC002351, AA343982, R84426, T53922, AA320971, F06851, W29048, AA081579, R29684, W15178, Z19683, AA347697, AA367017, AA099535, T26984, F06949, AA007229, T82098, AA262059, H44984, AA279352, N32373, R61157, R57993, N40832, R11575, H51179, AA279361, T40150, H60340, AA876126, N91637, H44905, AA903024, AA086072, AA192634, T19969, T63750, AA848139, H20334, W74489, AA105592, AI047408, AA073233, AA987102, AA986163, AI046331, AA968410, AI046654, AA060637, W81808, AA620164, AA073373, W71734, AA072988, AI048998, AA199388, AA475973, W61994, AA986047, AI048828, AA231437, AI019591, AA914212, AA183999, AA726218, AA183391, AA839654, AA108330, C85192, F14816, AA817014, AA820898, C90796, AA943971, AA735035, AA943972, C60269.

. . .

D64005, Z47547, H14925, R97328, AA752846, AA713018.

SEQ ID NO:610

V00662, V00710, J01415, X93334, X62996, D38112, AF054990, D50525, X93335, D38113, D38116, X93347, D38114, Y17170, Z71621, X99256, X97707, D38115, Y17174, M12298. U66061, Z70759, AF029308, X02226, U25123, X97336, U78342, X89763, X89765, U78346, U78328, U78326, U78344, U78339, U97343, M86497, V00680, U78341, U78350, Y07726, U78340, U20753, U78331, X14848, J01438, V00681, AJ001588, U78348, X97337, U78338, U78334, U78345, U78330, U78332, U87983, M55539, U78329, M86501, U78347, U97335, U78349, X72204, U97340, M86495, M86494, M35875, M86493, M86500, X88898, J01394, V00654, U78343, M86496, X63726, U97337, X79547, U97338, X61145, M86498, M35876, M35877, V00665, M86499, AJ001562, U97336, M35874, U20754, X72004, Y10524, L07095, L07096, V00711, M55541, Y11832, L35585, M55540, U97339, U97341, U97342, AF039436, AA156195, AA837501, AA211604, AA722510, AA101199, AA593692, AA806219. AA837552, AA809068, AA069787, C18511, AA081175, AA809120, AA548858, AA808965. D59027, AA555222, AA548322, AA876523, AA565377, AA554476, AA555052, AA563906. AA856781, AA714382, AA553425, AA593698, AA643360, AA555049, AA565897, AA131338, AA180349, AA551211, AA554931, AA809137, AA714377, AA578668. AA575889, AA485302, AA548947, AA548856, C75634, AA187780, AA876475, AA595706, AA593792, AA211500, AA576595, AA554579, AA654346, AA643016, AA641259. AA642904, D51155, AA178950, AA211601, AA533073, AA548235, D52021, AA180957, AA548852, AA837570, AA602770, AA652684, AA216525, D56338, AA554597, AA548854, 25 AA554106, AA554734, AA595814, AA193227, AA868519, AA564005, AA551189, See See AA164534, AA548840, AA553534, AA608673, AA563954, AA553856, AA578871; 3.350 AA548843, AA643290, AA642909, AA565762, AA548327, D51828, AA582730, AA563762, AA595777, AA826894, AA643162, AA812395, AA928697, AA071006, AA575827, AA595579, AA838283, D51071, AA682021, AA682016, AA692759, AA571129, C78436, AA530592, C79662, C76503, C76087, AA615654, AA140493, AA647235, C76769, AA275856, AA271034, AA060850, AA879576, AA422814, AA162295, AA427325. AA562460, AA563249, C78279, AA445635, AA617320, AA445629, AA619495, AA560394, AA473166, AA790625, C78374, C76380, AA432943, AA666941, C78152, AA575672, AA794847, AA547490, AA562097, AA207627, AA275855, AA207706, C76177, AA607034, AI049354, AA276226, AA399915, AA414310, C79665, C76404, AA546599, C78371, C80274. C78608, AA473191, C80311, AA434707, AA645958, AA269722, C78931, AA473180, C78649, C78917, C89299, C78364, C80116, C76461, AA271787, C78816, C79336. AA437980, C79978, C76341, C77782, C76455, C78313, C76976, AA241045, C80825, C79110, AA589968, C76191, C78057, C78595, C76403, C76416, C77792, AA529696, C79492, AA445286, AA445340, AA518316, C89190, C79398, AA286097, AA760119, AA666554, AA067991, C78315, C79321, W96641, AA943683, AA945827, AA851795. AA945976, C06573, AA946045, AA799441, AI010222, AA944069, R46896, AI007687, AI012346, AA943678, C06883, AA012700, AA946037, AJ007466, AI009598, AI011357, X93284, Z84166, C82602, C83458, X91720, AI014135, C06615, C06507, AA545852. AA514138, AA052035, AA563531, AA007732, AA253513, AA246076, AA991136.

AA022351, AA570877, AA052036, AA246146, AA231984, AA848873, AA991145,

AA057913, AA022403, AI013652, R86631, W66514, H91497, AA567224, C84082, AA555604, AA695472, C90646, AA696177, AA605789, AA696325, AA943399, AA802879, AA943838, AA957048, AA514149, AA550030, AA819881.

SEQ ID NO:611

X81198, S74341, AC005148, S63823, X61457, X53820, Z70680, U32692, D84394, AF019376, Z99289, Z46793, L29789, AA412680, AA206349, AA102578, AA293170, AI025067, AA705915, AA165600, AA527537, AA705955, AA102464, AA506760, NR 1777

- AA705915, AA165600, AA527537, AA705055, AA192464, AA506760, N24749, AA047461, AA088764, N26132, AI040426, N32156, N32947, AA688242, H99310, AA434593, AI002397, AA993720, AA707731, AA422132, AA804436, AA719418, AA928305, AI024105, R76982, W15326, H94333, N21273, W42458, AA243440, N42618, AA856562, W85810, H99597, N67805, AA808672, H98545, AA599213, AA811624, AA714152, H88780, H88997,
- AA055972, N94593, AA491237, AA788790, T99642, AA598401, AA026110, H96031, Z40496, H07091, AA081953, R36241, AI022977, AA554666, R21824, R08208, N92709, F04702, H24774, R80774, R31914, T34041, R80765, R65607, AA047395, AA088763, W20326, AA806861, AA612944, R39589, AA380341, H24822, AA165481, AA029610, T99056, H99596, AA525270, AA826917, AA340875, R32597, R80764, AA367928,
- AA304895, AA292732, AA405032, N59435, AA654942, AA845488, H27096, W69173, AA495982, AA587836, AA960628, AA068567, AA691739, AA067202, AA682061, AA544759, AA518283, AA189768, C89374, AA271271, D19224, AA930673, AA140370, AI046865, AA471738, AI046836, AA959166, AA711362, AA265873, AI035607, AA691975, AA986088, AA183370, AA222648, AA265273, AI046485, AA059545, AA178621, W91579,
- AA915644, AA153692, AA237206, AA268820, AA964145, AA892567, AI010488, AA946440, AI011123, AI013192, AA819757, AA963606, AA945046, AA963929, H33366, AA818325, AA720308, C89916, AA406834, AA687079, AA963948, AA257371, AI030119, AA509034, AA893844, AA257246, AA430867, AA454454, N43424, AA114484, AI030346, AA430886, C88418, AA123512, AA842513, AI029667, AA140770.

SEQ ID NO:612

- X81198, S74341, U32692, D84394, Z70680, AF019376, L29789, Z46793, Z99289, AA412680, AA102578, AA206349, AA293170, AI025067, AA705915, AA527537, AA705055, AA192464, AA165600, AA506760, N24749, N26132, AA047461, AI040426, N32947, AA688242, AA088764, AI002397, AA993720, AA707731, AA422132, H99310, N32156, AA804436, AA928305, AA719418, AI024105, W15326, H94333, W42458, N21273, AA856562, AA434593, AA243440, W85810, H99597, N67805, R76982, AA808672, N42618, AA599213, H98545, AA811624, H88780, H88807, AA665072, H888072, AA665073, H888072, N42618, AA599213,
- 40 H98545, AA811624, H88780, H88997, AA055972, AA491237, AA788790, N94593, AA598401, T99642, H07091, AI022977, H96031, AA714152, R36241, R21824, Z40496, N92709, AA026110, F04702, R08208, R80774, T34041, H24774, R31914, AA554666, R80765, R65607, R39589, AA081953, AA806861, AA612944, AA047395, AA088763, T99056, AA380341, H24822, AA525270, AA165481, W20326, AA826917, H99596, AA029610,
- 45 AA340875, R32597, AA367928, AA495982, AA587836, AA570477, AA425045, AA845488, H27096, N59435, AA631753, AA654942, W69173, AA677089, AA068567, AA960628,

AA518283, AA544759, AA682061, AA067202, AA691739, AA189768, C89374, AA271271, AA140370, D19224, AA930673, AA471738, AI046836, AA959166, AA265873, AI046865, AA711362, AI035607, AA691975, AA986088, AA183370, AA153692, AA222648, AA178621, AA059545, AA065949, AA963929, AA892567, AA819757, AI013192, AA945046, AI011123, AI010488, AA963606, AA946440, AA964145, H33366, AA818325, AA720308, C89916, AA893844, AA430867, AI030346, AI029667, AA406834, AA963948, AA687079, AI030119.

SEQ ID NO:613

10

25

1.00

X81198, AA412680, AA102578, AA206349, AI025067, AA293170, AA434593, AA707731, AA705055, W42458, AA705915, AA719418, AA993720, AA527537, AA047461, AA165600, AI002397, AI040426, AA506760, H94333, AA192464, AI024105, N26132, AA928305, AA804436, H88997, AA856562, AA422132, AA688242, N32947, N24749, W15326, AA088764, H98545, AA243440, H99310, AA599213, AA808672, H99597, R76982, N21273, N67805, AA491237, AA055972, AA788790, AA598401, AA811624, AA026110, T99642, H88780, N32156, Z40496, N42618, W85810, AI022977, H07091, AA714152, H96031, F04702, AA806861, N92709, N94593, R21824, R80765, R36241, R08208, T34041, AA554666, R80774, W20326, H24774, AA088763, AA380341, AA612944, AA081953, R31914, H24822, R65607, AA826917, R39589, H99596, T99056, AA525270, AA047395, AA029610, R80764, AA292732, AA405032, R32597, AA165481, AA340875, AA367928, R80773.

THE PROCESS OF THE PARTY OF THE

STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,

CONTRACTOR OF THE STATE OF THE

SEQ ID NO:613

X81198, AA412680, AA102578, AA206349, AI025067, AA293170, AA434593, AA707731, AA705055, W42458, AA705915, AA719418, AA993720, AA527537, AA047461, AA165600, AI002397, AI040426, AA506760, H94333, AA192464, AI024105, N26132, AA928305, AA804436, H88997, AA856562, AA422132, AA688242, N32947, N24749, W15326, AA088764, H98545, AA243440, H99310, AA599213, AA808672, H99597, R76982, N21273, N67805, AA491237, AA055972, AA788790, AA598401, AA811624, AA026110, T99642, H88780, N32156, Z40496, N42618, W85810, AI022977, H07091, AA714152, H96031, F04702, AA806861, N92709, N94593, R21824, R80765, R36241, R08208, T34041, AA554666, R80774, W20326, H24774, AA088763, AA380341, AA612944, AA081953, R31914, H24822, R65607, AA826917, R39589, H99596, T99056, AA525270, AA047395, AA029610, R80764, AA292732, AA405032, R32597, AA165481, AA340875, AA367928, R80773, D19224,

40 AA691739, AA518283, AA930673, AA544759, AA271271, AA711362, AA068567, AA960628, AA682061, AA189768, AA067202, AA798143, AA543158, H33366, AA819757, AI013192, AI011123, AA963606, AA963929, AA945046, AA946440, AI010488, AA892567, AA964145, AA818325, AA842436.

U28831, Z78541, Z85996, <u>U33275, M10134, D50601</u>, X83287, <u>U64608</u>, <u>S65207, Z49286</u>, U53180, Z49285, Z97348, D13663, AC004476, AC004742, AF001308, T10311, AA249750, N62051, AA088359, AA069486, N56023, AA553416, AA446279, C15980, W20230, AA426231, R01148, AA100935, AA192179, AA279613, AA082559, AA278941, N33323, 5 - AA043139, N47018, AA836884, W87285, C18639, AA591957, AA033113, AA212049, C85811, AA770861, AA798281, AA153484, AA274657, AA759924, AA259507, W96875, AA189685, AA168119, AA797640, AA145772, W82209, AA267994, AA986113, AA606626, AA249900, AA590986, W96872, AA725984, AI008019, AA495219, AA848647, AI011707, AA697700, N65009, AA392406, AA568062, D46427, AA940906, T38767, AA441016, T15167, AA819399, AA859550, AA899046, T38774, AA799503, T38296, AA874742.

SEQ ID NO:615

10

- U28831, AF016686, Z85996, Z93928, AA553416, R01148, C15980, AA088359, W20230, T10311, AA069486, AA446279, AA100935, N56023, AA192179, AA426231, AA082559, AA279613, AA777564, AA621640, AI004622, AA707143, H88829, W52290, H88830, AA256374, AA766135, AA677539, Z78318, T95031, AA889510, AI022486, AA628783, N77543, H89948, AI041765, W45423, AA746269, W02557, AA736845, W48645, AA043693, AA451881, AA747909, AI018470, AA101081, F10259, N51242, AA954779, R71456, AA267694, AA204101, AA873929, AI019694, W53762, W48242, AA120253, AI047063, C92081, C68661, C92904. 1. 1910年 (1.11年 12.11年 - COLOR CALL STREET LONG CO 25 SEQ ID NO:616

COMMANDE CONTRACTOR

U28831, Z93928, AC002454, AC004613, Z48621, Z82189, AC005246, AC004547, AA553416, W20230, AA100935, AA426231, R01148, C15980, AA088359, N56023, T10311, AA446279, AA082559, AA192179, AA069486, AA279613, AA932327, AA632516, AI004622, AA456194, AI014425, H38522, AI015903, T06689, AA329764, AA189831, AA546824, AA571196, W14631, AA204101, W62599, AA120253, W48242, W36391, W11390, AA755750, AA267694, C80606, AA038481, AI019694, W10589, W00109, AA956040, C23325, AI012839, AI011972, F23049, W63449.

SEQ ID NO:617

35

U57645, S78825, D13890, S78986, X77956, D13889, U43884, M31885, L23148, M86708, D10862, D13891, M97796, M69293, M96843, D10863, AF049135, AF068831, AF007414, Y08368, M31902, M32636, M31901, U16153, X75018, AJ001972, Y07958, U28368, AB007000, S76880, D10879, AF003626, X63841, U03771, AC002502, AF074603, L17131, U45285, AA402148, AA402534, W94501, AA434545, AA773775, AA442730, AA037144, W78892, H67415, H63164, H79454, W69973, R28063, W01825, AA158482, T27389, AA402991, AA100974, W05112, AA158304, AA029841, AA085496, AA635758, R64428, AA856603, N80544, AA846831, D30824, AA293530, N92465, T29348, H95030, N99516, 45 H00251, AA927561, W17156, AI038013, W86560, N55317, AA977528, R96317, AA856639,

H10512, H70169, AA315445, T19443, N39712, AA248350, W49729, AA460804, AA317953, W38998, AA305303, H57072, AA244254, W96449, D52725, D52446, AA352083, H54369, AA846298, AI038365, D52440, AI031740, W56034, AA729180, T99883, AA855096, N68174, AA094834, AA732823, AA553724, AA968795, AA449538, W37258, W52842, W96546, R12658, N80633, AA948496, AA582212, AA244044, T50950, AA033993, R48599, AA151620, AA847016, H51908, AA708137, AA100975, N26622, W38807, AA375532, H57073, AA996089, AA812456, H54291, W20315, H81838, R48701, AA537473, AA104954, AA015127, AA000275, AA245114, AA980126, AA272632, AA611580, AA002655, AA416075, AI048710, AA221040, W98215, W87099, AA020521, AA855942, AA272633, AA272634, AA015170, AA028385, W56997, AA272635, W08372, AA958648, AA002977, W08321, D21793, AA060627, AA762488, AA036390, AA272636, AA066918, AA982863, AA469536, AA563039, W70570, W18043, AA277331, AA105408, AA162208, AA290412, W83211, AA290337, AA646282, AA123373, AA606850, AA109195, AA030265, C88707, AA059598, AA655741, AA684307, AA240422, C80022, W14857, AA799182, AA272637, AA432701, AA869451, AI020763, AA763343, AA107820, AA636155, AA840196, AA066140, AA692865, AA880663, AA409757, AA183775, AA591153, AA896703, AA870106, AA182168, AA793152, AA797180, W36455, AA718564, AA790952, AA823725, AA966929, AA980653, AA980853, W29518, W30048, W30258, AA007990, AA389171, AA537474, AA717592, AA940427, AA734505, AA790940, W82367, AA670576, AA450660, AA543465, AA823194, AA881164, AA939354, C06777, AI009595, AA819539, H35161, AA686930, AA685852, AA851735, AA391523, AA439247, AA802644, AA567404, AI044710, AI007907, AI030517, AA997043, AA818860, AA892021, AI012052, AA497329, AA962852, C19681, D75832, D49273, AA892514, D40501, D39794, AA439218, D15218, AA754460, D49340, C29032, D48067, N96093, T02111, D48856, D48862, AA957930, D41218, C72718, AA695311, AA943106, N38392, AA892429, D36870, AA943025, H36135, D15293, T75801, 25 D24608, C91657, D42380, D46645, AA979476, AA925085, D38800.

SEQ ID NO:618

U57645, S78825, X77956, D13889, M31885, N40205, N92465, R42854, AA776956, AA962658, AA977528, AA846831, AA098812, AA100975, AA402991, AA158021, AA564627, W57694, N68104, N70771, AA457158, AA582212, AA158383, AA039846, AA987457, AA936837, AA995770, AA708137, AA635758, AA856603, AA029307, W17156, AA649880, AA160925, AA927561, AA582644, W84666, R63818, AA605016, W86561, H13207, AA219438, AA502273, W94616, N71486, AA427914, N59802, W69974, AI038013, H67366, AA293531, AI031740, AA628690, N75411, AA812347, R23896, AA632337, T23967, AA932541, H79339, T29348, H63080, AA826698, AA678110, D12428, H95093, AA911961, AA060424, AA407767, C82597, C83453, AA944852, AA900869, AI009595, AA899322,
40 AA819539, AI012052, AA851735.

SEQ ID NO:619

45 M31222, X52078, M31523, M24405, M31522, M95586, M24404, X62323, X54549, U10993, X17500, D16631, D16632, D16635, S77532, M65214, AL021978, AB002454, AB002461,

AC004021, X89416, D29919, U55276, M76432, U11508, U25174, AA251176, AI027246, AA906873, AA284826, AI023158, AA768906, AA864713, AA761788, AA992325, AA732149, AA825933, AA741143, AA907591, AA811721, AA804490, AA825583, AA827727, AA831462, AA284598, AA485146, AA521374, AA888764, AA481960, AA504502, -5 - AA811027, AA482075, AA026644, AA482073, AA065053, AA481955, AA811585, AA883524, AA261863, R71755, AA251379, R72653, R54960, C18205, AA350221, AA026102, AA283944, AA251378, AA639838, AA649316, AA235661, AA258188, AA284958, AA459409, AA736653, AA243623, AA448293, AA563669, AA748889, AA534698, AA714643, R46520, AA971973, AA458915, AA211837, AA291511, N70653, AA977695, AA890718, AA994039, AA857742, AA758651, H28074, R77759, N92448, 10 H61187, W96188, H24664, AI032639, AA811584, AA534806, T79941, T64887, H55980, AA936636, AI039325, N54551, R60234, AA179066, H52813, AI049635, AI052182, T83352, AA612744, AA811560, R45213, AA977286, AA236318, Z38163, AA612871, AA876062, AA521104, AA938322, AA808108, AA103359, AA867031, AA124519, AA117566, AA492609, AA509762, AA874295, AA108960, AA161906, AA871765, AA118906, AA241295, AI046920, AA274509, AA925168, AA949467, AA538880, AI008604, AA539675, AA894145, AA816983, AA439550, AA944531, AA942050, AA950297, AA949603, AA735910, AA539403, AA201573.

20

SEQ ID NO:620

M31523, M65214, M31222, K01241, M24164, D31955, AA829266, T47792, AA442932, AA176379, AA758065, AA613989, AA868357, H52644, AA788849, AA459634, AA514584, R77848, AA292521, AA285115, N79022, H62090, R51355, AA431495, R15325, H61535, AA608615, H29078, W31285, AA219678, AA210757, AA075254, AA076047, H73728, AA050679, AA387697, AA265653, AA254354, AA396011, W83540, AA270595, AA408400, AA250138, AA710652, AA674377, AA978497, AA494742, AA940591, AA735656, AI008078, AA739912, AA191996, AA901627, AI045492.

30

SEQ ID NO:621

Z48784, U41992, AA703998, AA044900, H98974, AA716497, AA491463, AA599783,
AA031932, AA600033, AA044689, AA548128, AA669937, AA173933, AA627069, AI041635, H97549, H97601, AA186359, W72045, AA032050, AA137262, AA026782, W92629, W78218, AA088246, AA661793, W46845, AA595373, W94840, W58303, N23437, N79437, W63570, W46494, AA583657, AA593009, AA983246, AA788950, H97340, N33105, H97416, N34381, AA147651, W46790, N67716, W96120, W94418, T47507, AA961557, AA599353, AA987381, AA565505, AI025353, W81572, AA888923, W42793, W58194, AA903702, AA480682, T33491, W74255, W52215, AA722567, W76397, W51762, W96121, W52141, AA988438, AA664567, N70652, AA025046, AA128494, R87166, AA599854, W46918, H50538, AA666225, R95744, AA025047, AA853933, R56693, R39109, AA853321, AA599400, AA886647, C00827, T90854, N73609, Z38867, W52070, T54372, AA987862, N94338, A83373, AA719902, AA501650, N68056, T62853, W17326, R07697, R81056, C85873, AA180654, C94851, AA293962, AA440719, AA941072.

AF012072, AB003362, AF073830, U83251, AA774760, AA293841, AA425125, W40521, M85634, AA402442, AA179025, N34260, N75161, N85658, R54165, N34263, AA669349, N39869, AA044583, AI039716, AI041216, C04504, AA033569, AA762442, AA142665, AA789817, AA476083, AA623031, AA623053, AA839236, AA871801, C61324, C63188, AA676129, AA257810.

10

SEQ-ID-NO:623-

AF012072, Z34918, AF012088, D12686, L22090, AF051934, AJ229042, U84100, AF055066, Z48432, AF005681, AF005675, AF005670, AF039057, AF005697, Z74071, Z74072, AF005683, AF005679, AF005680, AF005694, AF005673, AF005669, AF014948, AF005682, AF005674, AC000066, AC003009, U29157, Z68296, AC004763, U84099, AF005671, AF005678, AF005684, AF005685, AF030884, AF015454, U62943, L05514, AB008681, AF005672, AC004532, L04132, Z68748, AI014367, N92469, C15377, AA134568, W05794, W79550, W17157, AA468635, R50684, N25822, AA665666, AI039626, AA134567, R50683, AA457747, AA491028, Z26996, N44557, C21162, AA425182, N75058, AA910355, AA147590, AA095103, AA730099, AA011174, AA610357, AA527291, AA658171, AA211545, AA059268, AA579633, AA173380, H50624, AI024443, R73685, AA176799, AA010443, AA713681, AA521194, H01346; H56415, AA613629, AA767888, H89553, AA447947, AA612937, AA312008, AA604164, AI000693, H93075, AA705169, AA336339, AA563630, AI017605, AA776703, AA861544, AA102784, AA509441, AA655398, C86651, 25 W61392, AA210375, AA002277, W61394, AA840592, AA822617, AI019204, R75462, AA008667, W30394, AA254210, AA103273, AA172736, AA261254, AA839128, AA762524, AA033419, AA014557, AA212904, AA080224, AA409974, AA139181, AA881971, AI048331, AA538296, AA959429, AA139372, AA538203, W29456, AA538068, AA271264, AA209088, AA244839, AA530597, AA104643, AA152553, AA174577, AA038437, AA608039. AA048344, AA451453, AA271829, AA762267, AA762288, AA140341, AA982351, AA608321, C76476, AA177406, AA254248, AA397202, AA615429, AA646552, AI048391, AA930467, AA197396, AA216884, AA960279, AA914035, W12213, AA067097, C76067, AA821737, D18988, AA124733, C79956, C85907, AA794425, AA981654, W35735, AA589522, AA267923, C76467, AA980886, C76479, AA123430, AA125454, AA560245, AA893170, U30849, C54341, C11247, D33256, AA624966, AA658642, AA720446. AA495115, T18112, AA999529, AA241425, R82900, C36016, AA925357, AA941899, AA800217, AA241554.

40

SEQ ID NO:624

U67547, U49829, AL009028, L01943, AC003078, AF016669, Z70780, X69920, AC005270, L00587, N27428, N91105, N63752, R16611, AA705364, W28305, AI024323, AI020141, AA793006, AA692687, AI045505, D15159, AA247041, C94134.

L16782, L11910, AC002070, X87344, AC004613, AC005178, AC003085, Z97629, D87022, Z97206, Z70050, Z73986, AC004104, Z95624, L38952, AF001295, Z81365, Z73967, Z80900, 5 -- AC002081, AC004038, Z78022, AC004388, Z93403, AC003960, AC004020, Z98753, AE000660, Z82170, AC002526, Z69367, AB009801, AD000685, AC000054, AC002404, AC004103, AC002366, AF013593, AC004457, AC002990, AC004383, Z82205, Z86063, U80460, AC002075, AC005192, AC005092, AC003014, AJ001981, AC003049, AC002076, AL022322, AL008724, AC004478, Z98255, AL009181, Z98880, AC003661, U69570, AC003010, Z95124, AC004009, AC002457, Z99289, AC003667, AC004087, Z96810, Z82203, AL008709, AC004069, AC002463, AC002072, AC002448, AP000016, D14034, AC002524, Z68746, Z70272, AL009173, AL022148, Z82975, AC000053, AC004025, AC000362, Z86064, AL022321, AC003080, Z69906, U82696, AF045555, AC002541, Z84719, AC000062, Z75745, AL021812, U95741, AC003969, Z68868, AL008710, Z82194, AI041010, AA742995, AA989031, AA811871, AA205874, AA767325, AA808679, AA769899, AA972817, H20890, R17891, AA831154, F03337, AA581098, R60505, AA169205, AA350198, F03291, AA782346, AA463216, AA516148, R22981, AA534745, N62349, R52631, R55681, AA993625,

AA096300, R40188, N36266, R61889, N67068, H41181, F04195, W21339, AA551324, Z19907, AA723783, AA551665, AA814417, AA759193, AA468999, AA808697, AA687732, AA694387, N57373, AA992391, C16407, AA600194, AA618321, AA883885, AA480504,

AA469256, AA004414, T40368, R31339, AA618138, W99308, AA994725, AA701082, AA514439, AA309494, AA631188, AI002414, T06870, AA935161, N93679, AA535617, AA677371;R31801;N52300, AA746938, AA855047, H97762, R37790, T94417, AI0248#8; AA128318, R31228, AA934093, F00123, H96567, AA939046, H74023, H53949, R70567, H53949,
H19725, AA984315, H49695, R83342, AA873726, AA280674, AA926782, R73502, AA884912, H97735, R23182, AA525450, AA525461, AA876318, AA207521, AI046801912, AA884912, AA88491 AA756172, AA636494, AA879494, AA881851, AA388727, AA254249, AA636178, AA636179, AA727949, AA899333, AA875010, AA923974, AA751607, C94174, C90750, Paragraphy of the control of the co AA923930, C25513, AA856222, AA547868, AA550436.

30

SEQ ID NO:626

D32053, D31890, Z31711, L36832, AE000646, AC004741, Z86061, U41105, Z11508, U24186, X85117, AL022099, Z11507, AA573283, AA614334, AA662444, AA614337, AA057672, 35 AA703991, AA630704, AA564251, AA780600, AI041024, AA704099, AA599314, AA714642, AA425858, AA490053, AA446904, AA599834, AA622340, W93690, AA521031, AA583419, AI039385, AA582748, AA759087, AA593700, AA602650, AA854428, AA736396, AA954213, N70800, AA758504, AA568883, AA977448, AA151845, AA574018, AA588070, AA099697, 40

- AA025163, AI002294, AA086271, AA985162, AA970759, AA025134, T69945, N54535, AA489715, N50552, AA779791, AA826636, AA665448, AA621215, AA136638, AA187940, AA410502, F19177, AA810122, N55561, W22544, AA570143, R43913, AA431976, AA639540, F02808, T15632, AA706355, AA157319, AA765674, AA425264, AA704403, H62843, AA225489, AA250893, R01261, AA486374, AA714876, H05288, H91283, R43186,
- AA219436, R43187, W93742, H83409, AA729526, T85095, AA076288, T28841, H68493, H05831, AA974496, AA908817, AA486220, N50606, AA461541, AA443856, AA621748,

AA976735, AA826269, AA037797, H62963, AA503390, AA209876, W08610, AA692247, AA543220, AA692131, AA422603, AA606653, AA475557, AA606664, AA756724, AA388183, AA645501, AA120029, AA727543, AA982821, AA575222, W77297, AA815798, AA896112, AA221158, AA474923, AA171278, AA795587, AI047220, AA474983, AA839217, -5. -AA105493, AA518173, AA517714, AA124966, C78670, AA689746, AA407939, AA895424, AA437599, AA458399, AA030560, AA030489, W80107, W48258, AA144352, AA004176, AA615776, R75143, AA466510, W13581, AA499866, AA048392, AA041806, W97014, AA546598, AA793148, W97582, W77362, AI036895, AA183698, AA172814, AA734263, AA863778, AA920734, AA892250, C06762, AA963227, Z81273, AA926135, AA606207, C30878, D64256, C11212, D66838, C36812, Z46534, AA952462, T01063, C62825, C82691, C83547, C11135, C35400, C36191, C37922, C52379, C53002, C53210, D65094, C30013, D65326, T38438, D35865, D67867, D36626, D34352, D66537, AA859646.

15 SEQ ID NO:627

D26549, X78479, Y13971, U04354, X65371, J03781, X65372, X60648, X66975, X62006, X74565, X93009, X60790, X52101, X60789, U80441, X13319, AL008720, M97227, D26549, X78479, Y13971, U04354, X65371, J03781, X65372, X60648, X66975, X62006, X74565, 20 X93009, X60790, X52101, X60789, U80441, X13319, AL008720, M97227, W74992, AA691889, W80100, AA543962, AA239612, AA067051, AA510839, AA880330, AA103223, AA032335, AA241020, AA472546, AA140271, AA624932, F14654, C67840, T04745, T45717, R64741, AA391093, AA392664, U74156, R64841, T43199, L33593, AA264205, T44358, AA438301, R90252, T46026, R65202, T45716, T43447, T43329, AA391723, R30497, N65841, AA979157, AA540501, H76846, D24187, C07146, AA660623, C68663.

SEQ ID NO:628

- AC002300, AC004668, Z97180, AP000045, AC004517, AC003663, U91328, U91323, D38524, AC004486, AC004381, AC004241, AP000018, AC004638, AC003077, AC000372, AC005251, Z73358, AC002297, Z97195, AC002069, AL009172, Z97181, AC004551, Z75890, Z98750, AC000403, AF006501, AC004231, AC003043, AC002451, AC003108, AC002504, Z69722, AC002091, U85195, D87675, AC002531, AE000658, AC002312, Z97352, AC000085,
- AC003002, U52112, Z82203, Z83732, AC002477, AC002558, AC002464, Z99715, AC000094, AC000379, AC005191, AL021939, L78810, AC003006, U62292, AC004045, AC004216, AC002325, AP000009, AC002115, AL020991, Z83838, AF064862, AC003010, AC004593, Z83821, AF038458, AC003098, Z49235, U63721, D83253, AC000120, AC004097, Z68325, AC002468, D86995, Z94802, AF053356, Z84720, AF001551, AC005152, AL022165,
- 40 AC005255, AC004492, AC002366, M10612, AC004602, AC000092, Z93021, AL022150, AC004525, Z82171, AL021366, AP000039, AC004685, Z97184, Z46936, AC002310, AA654529, AA179516, AA180257, T57755, T25705, AI038547, AA349493, W60354, N63618, AA443610, AA404619, AA143418, H88124, F01116, AA099289, AA828045, AA427421, AA621376, AA297135, AA831471, D44899, N29105, AA244421, AA946641, AA702717,
- 45 AA147768, AA664126, AA486786, T09219, H92092, AA020943, AA282820, T94686, AA345202, W01475, AA773547, AA083003, AA485720, AA301608, AA037725, AA604601,

AA809787, AA634547, H81602, AA309341, T71474, AA528554, AA190594, AA731008, AA743445, H49231, H48748, AA491681, AA613761, C18590, T46998, AA102054, N57681, AA078221, AA948726, F00212, AI051670, AA464887, AA282856, H47736, AA133568, AA551181, AA713768, R86114, AA458534, AA601728, AA715850, AA890235, AA192640, AA568198, H66037, AA258216, AA507612, AA112924, AA568747, H55779, AA002078, AA991512, AA171907, AA582077, AA525464, AA648840, AA788904, AA916168, AA531580, AA613232, AA354123, AA570797, AA826223, AA729755, AA019973, AA994233, AA644347, H53109, AA021354, AA517646, AA516629, AA516955, AA474026, AA823826, W64166, AA930142, AA198601, AA921442, AA537628, AA550283, Z69957, AI044039, H39426, H39321, C23823, C93174, H39330.

SEQ ID NO:629

- 15 X78479, D26549, U04354, Y13971, AF059486, AF041448, J04953, AF041449, AP000003, AB009484, Z29534, Z68104, X13871, U31699, X04412, X68039, D16513, U55045, X98992, AE001101, D10444, AA173831, AA366630, AA188584, R15617, N98954, AA991330, AA855151, AA612690, H42803, AA994947, AA994943, H26306, W45721, AA019754, AA292928, AA743326, AA991699, AA017180, AA700488, AA743280, AA782612, N91409,
- H14692, R85933, H86532, H86580, AA490729, AA522529, D25700, AA995943, AA472387, AA762354, AA562254, W54664, AA473866, AA462522, AA511598, AA409040, AA592243, AA555737, W98896, AA667740, W42118, W29218, W98220, AA000407, AA423745, AA674212, AA212842, AA880506, AA140271, AA562384, AA419868, AA544004, AA655579, AA839472, D19245, AA399939, AA178174, AA104840, AA821286, AA864106,
- AA795939, AA222567, AA616785, AI019774, AA896528, AA198892, AA624292, AI037083, AA080054, AA403711, AA589362, AA896865, AA470245, W18039, F14654, F13580, D47825, D15888, AA951952, AA996847, C11309, C31524, C37339, C37719, H35806, U31300.

30 SEQ ID NO:630

D26549, X78479, U04354, Y13971, AL009172, AC002310, U80017, U62292, U63721, U91323, U14573, AC002351, U52111, M63796, AC003690, L78810, AC003687, Z95115,

- Y10196, AC004491, AF001550, Z98950, AC004222, AC005261, AC000025, AC004638, AC004383, M26434, AC004659, AC003982, AC002504, AL021546, AF030876, AF031078, AC004623, AC004448, AC000118, Z54246, AC002400, Z97352, AC003043, AF001549, AC000085, AF029308, Z83822, AC004685, AP000047, Z47066, AC003108, AJ003147, U91318, U91328, U95742, AF038458, AC002110, AC004755, AC004699, AC004031,
- 40 AC005190, AC004770, AD000092, U14574, AC003103, Z81369, AC002425, AL021939, AC004447, AL021878, Z86000, Z82201, AC002312, AC002476, AC002430, AC005189, AC004752, L47234, AC000003, AC002073, Z74617, AE000658, Z94801, U85195, AC004152, Z84480, AL008636, AL021940, AC001228, AL009181, Z79996, U91326, AC002300, Z99570, D86995, AF003529, AL008725, AC002996, U47924, AC000045, AC005202, AL022162,
- 45 AA654529, T57755, AA180257, AA179516, AA180256, AA664126, R92640, AA593752, AA342681, AA613761, AA503019, R98218, AA810837, H53109, AA658934, AA593828,

AA640617, H68343, AI031759, AA745524, AA829044, AA947369, F17537, AA729755, AI028510, AA992126, AA122223, T03576, D58782, N64587, H62524, AA297666, AA984920, AA152253, AA655005, R23873, AA683069, AA262752, AA779783, AA525331, AA837597, AA614254, AA230025, AA808780, AA224889, N90460, AA526542, AA621381, AA224463, 5 AA077776, N23046, AA630535, T57767, AA180857, N22032, AA491681, H71678, AA984187, AA535216, H15241, AA664604, AA448221, AA054170, AA558404, D44899, AA846014, AA059369, AA604515, AA708021, AA653713, AA610255, W68328, AA021354, N58329, F02412, AA458534, AA112924, AA703818, AA621720, AA757406, N78600, AI002952, AA564642, AA668421, AA632907, AA468975, H85383, AI038304, AA463590, AA347426, AA228442, AA515631, AA502498, T15977, AA133568, AA719433, AA601327, H29914, AA988600, AA405798, C88111, W64166, AA823826, W51648, AA501297, AA474026, AA516955, AA516629, AA517646, AA501217, AA501128, C87922, W62377, AA414764, AA863851, C86532, W64884, AA839894, W61986, AA544053, AA163924, AA863837, AA990245, AA638449, AA560402, AA717794, W97167, AA939976, AA030390, AA920656, AA265602, AA242102, AA517461, AA138366, AA049041, AA253992, AA216836, AA138380, AA138372, AA712062, AA501262, AA124697, AA638888, AA590502, AA240430, AA561642, AA476035, AA717921, AA250237, AA267021, AA671212, AA073320, AA276812, W10838, AI048072, C87438, AA199111, C87864, AA199424, AA199420, AA028411, AA184625, C79718, AA726578, AA670662, AA397113, AA386877, W97045, W97935, AA008153, W18022, C77490, AA260786, AA409489, AA407868, W77222, AA386879, W18014, AA163505, AA067993, W82457, AA645726, C85347, W14672, AA522152, AA200484, AA271588, AA572175, AA795999, AA271536, AA030201, C88193, AA119993, AA395985, AA959908, AA266467, W65543, AA209694, AA270169, AI044039, AA550283, AA107123, H39321, H39426, AA923995, H39328, H39389, Z69957, W06387, AI008183, AA894110, H39351, D85806, H33967, AA874831, AA859718, Z36495, AA893806, AA942712, AI028965, AI009485, AA998556, AA817848, AA800974, AA924449, AA925125, AA818876, H31489, AA800963, AI009626, AA893994, AA859010, H39330, AA850898, H33511, AI012741, AA618974, AA979650, AI029815, AA944790, AA859198, AA925965, C43475, AA996923, AA858572, AA550596, AA891642, C44355, AA957108, AA942692, AA859214, AI044945, AA817797, AA943379, AI045812, H33071, AA964244, AA849868, AI045480, AA799436, AI009418, AA799649, AI044609, AA849562, AA892292, AA946046, AI029897, AA658796, AA800219, AA891712, AA900964, N38652, AA799356, AA819525, AA899688, AI030084, AA943060, AA924367, L38123, AA892418, AI008029, AA900020, H39329, AI008765, AA056877, AA944220, AA892448, N41097.

SEQ ID NO:631

35

Y14443, AJ003147, U09413, X78925, AC005261, X07290, AF031656, L20450, AF027139, X84801, U37263, M88359, U37251, X79828, AC004696, AL022393, U78722, X52343, M77171, X17617, M36146, X16281, U29512, AC003682, M77173, M15709, D10632, AC004232, U60763, X64413, U09367, L15309, Y00850, D88827, X89264, AF024708, AF024693, U35376, X52334, X52533, X78924, U09848, S54641, AF022818, L32164, D50419, Z29121, X77744, X83496, AF020591, X65233, X89631, X89632, X89629, X89630, Z96138, X12593, AF031657, M20675, M36516, L77247, M27878, M27877, U66561, X68011, X06021, U31248, AF027140, X70394, AA631979, AA278662, AA089485, AA632298, AA115318,

AA481221, AA743098, T12540, AA255747, AA262064, AA768909, AA457311, R98364, R18845, W31899, C05700, T08471, AA626677, AA757980, F06362, T26645, AA760927, R25565, W27300, H17412, AA148577, AA284223, AA076467, N89159, AA085637, AA351209, AA379532, W26008, AA134718, AA376773, AA492007, AA159900, W26015,

5- - AA321575, AA552236, AA305054, AA211186, AA176490, AA385633, AI033507, AA837846, AA134518, AA136720, AA805052, H81495, N89434, AA130554, AA279733, AA714166, AA283909, AA299149, AA176763, T84358, AA332875, AA485008, AA903551, T63342, W28368, AA295275, AA360436, AI028211, N92000, AA974380, T28391, H78719, AF026090, AA665316, R82475, T64395, AA838384, AA495843, H64444, N53129, AA234320,

AA682749, T93801, R98366, AA083811, Z21091, R99396, AA349969, AA166907, AA140301, AA154311, AA102943, AA666789, AA522401, AA980878, AA144467, W75531, AA980960, AA122779, AA414083, AA072856, AA155148, AA726681, AA517494, AA427186, AA172972, AA981211, AA474782, AA432622, AA119762, AA981587, AA879690, AA792248, AA575639, AA286209, AA546652, AA451439, AA119538,

AA940187, AA529691, AA798457, W33741, AI035795, AI036660, AI037302, AA896035, AA267120, AA451420, AA537315, AA271667, AA615956, AA444998, AA611316, AA646002, AA832620, AA624111, AA896323, AA799068, AA409820, AA036225, AA476109, AA562383, AA414390, AA940009, AA272824, AA014577, AA259489, AA061989, AA117053, AA120738, AA522022, AA189434, AA499647, AI048018, AA438234,

AA178652, AA791081, AA930487, AA120389, AA624117, AA242194, AA269934, AA920944, AA285425, AA726429, AA646425, R46897, D66035, D65928, C10220, D66687, D66778, H34728, D66501, D66247, AA999112, AI030817, AA497308, H31225, D49111, 100 电弧铁路 SHARE RESIDENCE TO SHARE
SANAGE SECTION

49.10.1000.1000.100

1. 25 图 经基础管理等的 计多点 CONTACTOR AND A CONTRACTOR

SEQ ID NO:632 Water Barren

ママ ひ フフ/ひてんひご

Y14443, AJ003147, M14916, Z81494, U29082, AF017732, Z73911, AF003131, X51668, AC004759, AC004656, U80436, AA732442, AA631979, AA593878, AA291304, AA262034, R01991, AA255747, AA627492, N47920, AA873393, AA887730, AI015953, AA406395, AA153797, AA929315, AA692551, AI007053, AA739013, AA105758, AI012832, AA859163, AA819622, D39550, AA818075.

35

SEQ ID NO:633

AC004008, M92067, M69197, AL021878, D50063, AC004695, AF064866, AL021069, Z95619, U93364, AC002431, Z95704, AC004237, U38804, X62629, Z92833, AA423848, AA280614, AA731338, N23116, AA742613, AA258860, N57005, AA854469, AA782404, AA807189, AA831404, H30390, R23996, AA782590, AA971238, AA809886, AA190774, W16797, C20889, AA155945, T82345, AA314705, H50724, AA602748, H80389, H19587, R74835, AA413238, AA178109, AA960395, AA183534, AA475065, AA794857, AA184298, AA185033, AA423706, AA274210, AA183790, AA789673, AA619473, AA245620, AA066974, AA200313, AA266621, AA792984, AA939691, AA288499, AA185159,

AA823019, AA174638, AA175350, AA207570, AA607108, AA673670, AA163538,

AA838848, AA739428, AA163136, AA221341, AI030559, C90551, C84686, AA957321, D69601, Z47385, C56105, N98009, F15477, R30601, AA900326, R03393, C56081, C55758.

5 _ SEQ.ID-NO:634 ____

Z54200, U41531, AF067217, X81410, Z71265, U17801, Z96810, AJ003215, AJ003216, Y10159, AF026212, S80990, U42409, U41034, M73780, Z67738, AE001100, Z73425, M90056, AE001099, U00064, W60281, AA680145, T86901, W60373, AA218706, N93247, W56709, AA199800, R06131, F13709, W38951, AA721305, AA337162, AA557221, AA037000, AA349130, R12401, AA775324, W83919, AA543805, AA529559, C25736, C61804, C50051, AA851369, AA960680, U83036, H35098, AA818185, H35338, AA696994, AA686311, AA851225, AA945587, AI013839, H33949, AA109384, C92455, D34940, T41855, D68179, C93045, AA999008, C84817, AA532276, C64377, AA824888, AI045039, F20039, AI044338, AA963225, AI029296, D27869, N43256, AA397497, AA550204, AA850498, C25785, AA944580.

SEQ ID NO:635

20

Z54200, D26155, Z93378, X72889, U00058, AF038606, Z84469, AC004681, U76670, U67078, M27902, AB011480, D45415, X77934, M64598, Y13467, X91638, Z75184, U09176, U50198, AL022603, Z69788, U33007, AP000039, M86524, Z73197, M10217, AB002306, AB011169, X89633, Z75287, U13679, X15731, M27394, L23419, Z81089, X12530, X07203, U72994, U23812, X02132, AF068711, Z79596, Z71559, L09751, L25366, Y10377, X04370, N34282, AA610128, N71690, AA854773, N47938, N49144, AA918304, AA167189, T66784, AA805205, H25330, H25289, N52314, AA652836, AA131710, N75170, R58771, W25576, AA131614, D63227, D78795, AA001851, N25952, W58590, W23618, AA280389, N89632, AA767765, AA814248, H25876, AA825351, AA737003, AA513727, H04156, H47032, N31899, W58591, H45977, AA775683, AA931504, H49974, AA058584, AA311717, H72527, T25345, AA309867, W28719, T84451, H82040, W31951, AA465009, R62852, AA303052, AA303053, T03658, W92852, AA258330, AA259258, AA352117, AA664208, D56028, AA743062, AA380958, D56068, R98913, H99963, AA046850, T32554, T72763, W94845, N40981, AA622286, AA651656, R32958, AA961221, H84967, W21827, AA251330, AA403185, AA807661, R36454, R94395, H94380, W79361, AA019638, AA491878, AA211395, AA506410, AA091050, AA304445, AA115008, N64745, W69704, H64488, AI036578, W08769, AA162744, AA114610, AA105703, AA409436, AA212648, AA561603, AA116847, AA753333, AI026325, AA874856, D41787, AA898754, L38222, H33856, AA471583, AA898788, AA480694, C10474, C68085, C66182, D74603, C71511, AI009431, AA754480, AI043271, T38339, AA949284, D34889, C19752, D26772, AA950431, AA392732,

C69941, C35127, AA923982, T15164, D37487, D32968, AA585623, AA263433, AA753112, AA787504, AI035055, D26773, C38447, AA157786, C30905, AA246991, C07325, AA942419,

45

D33726, AA997367, D34334, C72445.

Z74615, K01228, Z78279, S64596, X06269, AF017178, U03419, U08020, M32798, M32790, M55998, S67482, V00401, J00836, M10571, X06753, U50767, X15896, J00113, M27208, AB015440, X57981, M12199, D83228, L00063, M27207, X02373, U62528, X02420, X06268, L10347, J00116, X16468, U75405, M17866, M65161, M63708, L48440, U23822, M17504, -5- - D88764, V00390, J00838, M25983, J00820, AC002528, AF004877, J03464, Z74616, V00503, X55525, M36662, AF035120, AB008683, M63595, M63596, X70369, AJ005395, D49399, M12200, X58251, L24034, U68412, S67495, X52046, AF036704, AA788961, AA789233, AA704140, AA554805, AA456909, AA594126, AA703999, AA599521, AA489802. AA434079, AA669422, AA456983, AA453741, AA599208, AA599300, AA522696, AA256247, AA599762, AA427641, AA953103, AA564675, AA595560, AA600032, 10 AA602898, AA975668, AA399202, AA772878, AA453822, N26572, AA487514, AA453844, D79055, AA827555, AA292300, AA983262, AA446927, AA669785, AA600271, AA284550, AA586696, AA453760, AA669870, AA780725, AA489810, AA457264, AA600020, AA256158, AA669998, AA988677, AA977821, AA594770, AA293101, AA600282, AA669843, AA593813, AA486114, AA668442, AA617730, AA522675, AA653779, 15 AA669973, AA405497, AA256215, AA613975, AA668635, AA599428, AA600269, AA599483, AA434290, W49666, AA599996, AA985499, AA663268, AA668601, AA664460, AA181457, AA937318, AA293155, AA284822, H39823, AA457761, AA487276, AA668540, R50997, H39824, AA457605, AA780459, AA457292, AA670229, AA121852, AA663273, AA961662, AA759186, AA847723, AA477812, N49216, AA176648, AA987731, AA985449, AA551267, AA589384, AA619671, AA760498, AA498527, AA710766, AA245636, AA061236, AA008391, W97122, AA880603, AA048572, AA727786, W15958, AA799103, W50610, AA239145, AA498716, AA021772, AA008616, AA221649, AA286140, AA760025, AA914858, AA756818, W11818, AA067665, AA733749, AA563406, AA003166, AA755655, 25 AA717738, AA220654, W15796, W41217, AA231180, AA592286, AA572133, W97003, AA230997, AA008230, AA146453, AA914875, AA791164, AA050608, AA175736, AA799161, AA646848, AA274801, W16311, W07999, W43936, AA230929, W64655, W11321, AA756734, AA616738, AA245567, AA067771, W17438, AA790612, W76771, AA240871, AA168805, AA498114, AA733650, W20796, AA061273, AA793607, W63897, AA499466, AA840346, AA049905, W66592, AA265649, AA738908, AA068229, AA821411, W40688, AA930430, AA171030, AA049870, AA253899, AA016519, AA285759, W47703, AA221672, AA466398, AA500545, W62413, AA759986, W78542, AA097381, W11675, W11136, W98082, AA050788, AA572204, AA286523, W82139, AA086991, AA924727, AA925689, R46881, R46996, R46997, C95060, AI008052, R47025, AA957191, AI001468, N82871, C82569, C83425, AA819207, C94922, AA605894, C94535, R46990, N60615, 35 AA659942, H32295, C13058, C49897, C43039.

SEQ ID NO: 637

AF039575, D55672, M94630, D55673, U11274, X16933, D55671, D55674, U02019, X03910, AF026126, U11273, U76713, M65028, Z36844, X70151, AE000696, U14942, Z32682, X56877, AC002106, Z48612, AC002107, Z97342, U41276, M37249, X80340, AI002518, AA411615, AA285116, AA613845, AA488767, H88010, AA577517, AA505693, W76314, AA398152, AA830698, AA827418, AA861968, AA205538, R78209, AA825414, AI041755, AA132323, AA399572, AI031590, AI051151, D59165, AA683349, AA480614, AA574124,

可能的

AA885552, AA283263, AA974450, AA046949, W72288, T59548, AA987597, F22113, AA729692, AA160192, AA627344, W16765, W74620, AA579951, AA847462, AA410659, AA946935, AA668933, N34405, R53382, D55170, AA483980, AA160191, T20305, AA887151, D54861, AA384877, D53019, AA344109, W44942, N67235, AA316323, - 5 - -AA204898, -AA522627, AA352838, AA988140, AA363135, -AA013331, AA010071, AA385528, H88233, W94321, AA279437, N48686, AA973105, H85798, AA434371, AA132221, W85871, N55528, AA905527, AA583315, W39592, AA090932, H89244, AA534156, H13446, N79247, R91421, H49549, R69888, AA173703, AA770030, AA358784, AA256832, T59503, H70985, AA502474, AA213892, R30889, H70903, H49797, N48638, AA340787, AA305742, W64667, AA555733, AA168581, W10983, AA221785, AA120477, AA268992, AA048457, AA162021, AA461673, AA562015, AA123096, AA123285, AA222476, AA044466, AA049003, AA270438, AA114724, AA866856, AA049523, AA014296, AA863513, AA032652, AA174300, AA154330, AA170394, AA177845, AA521669, W85317, W41617, AA154631, AA645815, W98500, AA120123, AA185499, AA177390, W97739, AA153924, AA591486, AA555908, AA155285, AA222484, W15850, C78010, AA855800, AA543945, AA710243, AA137791, AA880182, W34924, AA930473, AA014937, AA033018, AA475204, AI050524, AA089262, AA068980, AA072859, AA000003, W82110, AA072954, W83119, AA213095, AA253676, AA472723, AA869343, AA957413, AA925245, AA945952, AA944182, H32050, H33819, AA963461, AA661101, AA659953, AA924879, T02275, C34098, C47987, C33433, AA694919, AA605613, AA751567, C46118, D37610, C72712, AA495419, C63143, C46160, AA605760, AA495494, AA606037, D22637,

C28167, C94052, AA750434, AJ227709, AA753713, AA963457, W96792, D34724, H56888,

25

SEQ ID NO: 638

AA494606, AA924835, AA605898, D67818.

STORT STATES

D55671, D55674, D55672, D55673, AF039575, M94630, U02019, U11274, X16933, U11273, X03910, AF026126, Z36844, U76713, M65028, AE000696, M37249, X56877, U05173, AC002106, AC002107, Z93286, Z48612, X80340, U14942, AA132323, R78209, AA988140, AA627344, AA363135, T59548, T20305, H70985, AA384877, AA358784, H88010, AI002518, AA340787, AA946935, AA385528, AA305742, AA173703, AA090932, W39592, W94321, AA332014, AA223769, N87676, AA905527, AA411615, AA092934, AA316323, C02355, R47891, AA344992, N89279, AA861968, AA094588, AA285116, AA304460, AA488767, N48638, AA353432, AA046475, AA613845, AA338080, W74620, AA352838, AA205538, W76314, AA505693, AA577517, AA283263, AA830698, AA046949, AA160192, AA483980, AA502474, AA410659, AA356928, AA379701, AA143684, N34405, AA344109, AA013331, H49797, AA827418, AA398152, AA683349, AA971745, AA825414, AA574124, AI041755, AA865626, W37362, W93291, D54448, AA677971, C05341, AA677711, AA129356, AA338283, AA384719, W72288, R33263, R18732, R23523, AA311332, AA384993, AA172067, AA046901, AA164820, AA164816, T30093, T31747, T36263, T64849, T15345, AA353647, T59275, R18789, AA442927, AA120477, AA048457, AA562015, AA268992, W64667, AA114724, AA014296, AA555733, AA032652, AA154631, AA120123, AA049003, W97739, AA049523, AA044466, AA591486, AA153924, W41617, AA155285, W85317, AA863513, AA168581, AA015138, W10983, AA162021, AA645815, AA221785, AA222476, AA120152, AA461673, AI007232, AI019790, W15850, AA035909, W75459, AA437919,

1.10年19日,宋**安定課題**為6次日本6月

一个自身發發物中學。

AA986586, AA089262, AI050524, W75484, H33819, H32050, AA957413, AA925245, AA659953, AA661101, D37610, D34724, AI029342, C46160, AA750434, AA753713, AA694919, D22637, C28167, C63143, AA754624, C46118, AA942550, C94052, AA963457, AA525556, C72712.

SEQ ID NO: 639

AF026126, D55672, D55674, U02019, U11273, AF039575, M94630, X03910, D55673, D55671, U11274, U21972, U22008, U21971, U21978, X15901, U21977, U21974, U22007, Z14148, U96876, AI017414, AA843750, AA971745, AA454880, AA213813, AA969279, AA284959, AA825717, AA214580, AA502793, AA013237, AA651955, AA836435, AA828387, AA046475, AA018680, H84906, AA305742, AA304460, AA338080, AA344992, AA988140, AA353432, AA223769, AA356928, R47891, AA384719, AA100533, AA379701, AA094588, AA368538, AA102724, H70985, N89279, AA092934, AA340787, AA143684, AA836218, AA132323, N87676, W65331, AA732335, AA034416, T97193, H65962, AA811382, H63476, W94690, AA482166, AA491400, AA743022, F19524, H67426, AA701488, AA348504, AA240478, AA014296, AA120123, AA114724, AA154631, AA155285, AA015138, AA052740, AA562015, AA153924, W97739, AA120477, AA591486, AA111410, AA981652, AA895128, AA863853, AA239252, W61764, AA968268, AA423742, AA414086, AA163047, AA546846, AA920420, H33819, AI013665, AA957530, AA979924, AA392608, AA998125, D15172, C22287, C23371, AA950874, C23197, C23370, C23327 1980年1997年1997年199 于建筑的复数形态。这些

AND TO

3. (1) A. (1)

1. 火火星

SEQ ID NO: 640

The state of the s

STANDARD CONTRACTOR

C13218, AA264542, AA394404, N82818, AA113719.

U77456, AC001228, U51281, D12618, M86667, X61449, U31633, AF009647, M37893, U43188, AC002418, AL009177, AL023280, U43189, AL023094, AI016522, R48876, AA917462, AA938463, H92201, R48773, N48113, H92347, R19751, W86729, N71060, AA554566, AA774179, AA632813, AA305042, Z21160, W68381, AA422160, AA082230, AA084933, AA091376, W67341, AA463350, AA504634, AA303999, N88683, AA642209, AA862276, X98428, H41078, AA057001, AA071214, AA375168, D82110, AA173360, AA223329, AA662886, AA311655, AA748043, R93829, AA456144, AA747916, W67231, AA083297, AA127585, AA622598, AI025070, AA251168, AA313902, AA988824, AA992418, AA504969, AA504982, AI048867, W50655, W78317, D21690, AA646147, AA545087, AA106981, AA589661, AA692748, AA546894, AA122854, AA414773, AA823409, AA529543, AA111345, AA111456, AA555821, AA571538, AA073118, AA445062, AA444251, AA120399, AA756108, W99877, AA172977, AA822787, AA832946, AA062108, AA239139, AA616781, AA107614, AA265677, D19206, AA290486, AA672731, AA269940, AA290027, W75858, W71454, W30067, W33469, AA915161, AA574532, AA725966, W54713, AA016588, AA178755, AA762767, AA088126, AA414161, AA107862, AA790496, AA939593, AA153479, AA154763, AA799449, AA849947, AA866472, AA899456, AA997667, T13866, Z33688, W43783, AA550307, W59841, AA686844, T42545, AA598004, C71012, Z25726, Z34234, AA042685, AA598003, AA963554, AA962942, T45200, AA849723,

数

的影響 類似 建铁矿 计对应

SEQ ID NO: 641

AC001228, U51281, U77456, X61449, D12618, AE000687, AC004752, AF042838, D21877, U75744, AF047354, AC005192, Z98257, AC003964, Z83236, X64346, AL023280, Z14148, 5- U56814, M86409,-L43052, AI022077, AA702914, AA676892, R11795, F06995, H07028, AA321115, AA324587, T11258, AA933707, AA243047, R19751, H25365, AA693729, AA723973, AA152285, AA452598, AA577597, AA131259, T89186, T73653, H57989, R56347, AA308328, R67289, AA496536, AA565583, AA600869, AA631012, AA704614, T56634, AA609890, AA618425, AA767706, AA228788, AA449013, AA587232, AA252703, H29250, AA551389, Z43476, W81191, F06616, F12256, W81759, AI005801, AA278035, 10 AA561994, AA791968, AA509417, AA840260, AA162772, AA529403, AA260459, AA571122, AA571890, AA718405, AA254433, AA763859, W34203, AA879597, AA545087, W35074, AA412805, AA414161, AA288814, C77764, W87216, AA959385, AA117257, AA080490, W89902, AA799038, AA106981, AA204423, AA591289, AA683783, AA145450, C86607, R75114, AA592604, AA863799, AA270250, AA591467, AA798234, W13376, AA980121, AI020871, AA110920, AA408822, AA178617, AI005984, AA764575, AA517253, U83052, U83051, AI011922, AI008650, C41484, N97615, R90669, C44194, R95238, C65151, AA550344, AA606113, C90830, AI009597, AA841083, C91238, AA097115, AA606035, C84046, AA801364, T13682, F15462, N96508, AA721895, AA800831, C23689, Z26033, C92292, AA605962, C92220, AA606220, AA899235, C94470, C90155, C90591, C94228, AA956720, AA801365, AA394701.

SEQ ID NO: 642

. . . 2

The Control

通信线点 医性套

母品 禁忌

25 77 Sept. 14 -对于数据实施1916年 S67071, L40392, U28734, X66366, Z73105, U31600, U67424, Y12488, AC004659, U46933, X83619, U18650, AC002324, AL009181, U31447, AL021920, U86962, Y09585, AB007648, AF020657, M91452, X62880, Z48153, D14886, AC004593, AF000943, X65692, U97193, Y15944, AC002433, Z82187, AL021407, M80571, L02534, AC003661, AC000022, Z97338, AE000665, AJ001515, U91325, Z49398, D14887, AC003685, D85434, X57201, M91451, 30 AL022150, U20906, U17838, L31549, X77225, U20907, Z95559, X69465, X99384, Z99091, D45132, X75383, Z81525, AB001025, AA147323, C75219, AA180321, AI038854, AA513522, N24122, AA826001, AA621423, AA113317, T71578, AA829191, AA361495, AA334984, AA888518, AA147425, AA376840, T71726, AA304423, T60745, AA090285, T18537, AA776259, AA355425, W27491, X93861, N76507, W26196, D29591, W84460, T35539, AA974278, H19156, AA488476, N55978, AA770224, R87930, C03520, AA074879, N41585, AA065299, AA065300, AA459699, AA775452, AA864705, T85861, N55760, R55267, AA737681, AI014668, AI017017, N91426, R50149, AA306910, R52021, AA569993, AA854695, AI014669, AA812204, AA274725, AA624208, AA726045, AA530666, AA170655, AA690285, AA546306, AA666700, AA692975, AA168229, AA822093, AA921137, AA414037, AA207492, AA163040, AA712011, AA623900, AA863938, W33766, W53793, AA276125, AA210149, W81788, AI037781, AA863961, AA266872, AA068288, AA510967, AA273522, AA230836, AA240745, AA637449, AA960471, AI007139, AA278014, AA260506, AA067133, AA469668, AA184000, AA896287, AA674119, C85510, AA061335, AA717739, AI019258, AA895475, AA596421, AA793428, AA797955, AA815898, AA881218, AA467436, AA253768, AA798124, AA675676, L26732, AA404015, W89980, AA450653, AA467444,

AA517764, AA895398, AA592488, AA716849, AA795527, AA871936, AA445091, AA588982, C80585, AA623349, AA915557, AA015563, AA288169, AA673066, W29377, W65220, W97542, AA110483, AA096866, AA929628, AA123743, C80564, AA607305, AI036200, R47104, AA801288, N37967, C73752, D46463, D69867, AA395389, D47486, D46643, C33987, T23394, T14760, C57917, D72235, T02602, C34059, AA224681, C35832, C20153, C74612, AA520866, D48156, D32491, C24983, D48194, T02509, AA397498, AA933532, AA998231, AA098688, N37915, AA224648, T42040, AI043785, M79841, AA074017, D86754, N81731, AI011347, AA891553, AA898292, C93511, H35009, AA420925, C91629, C23431, AA933407, AA996961, AA945917, F20076, U94861, AI052940, C23848, AA685074, W99668, AA247097, AI043586, U94862, AA933520, W43801, C57017, C26078, AA089418, AI013481, T22782, H31546, N43198, AA899175, C61289, D24435, AA998158, D48024, AA023862, C62969, D40132, AA264439, C74704, AI008510, AT000376, D67546, H32221, AI011258, AA660699, AA943361, D39670, AA585752, C73502, AI026402, D21984, D15898, AA901367, AA957340, AI035125, L47867, F15112, AA879398.

15

SEQ ID NO: 643

Z79791, X95226, D13643, X95227, U26742, U46744, Z35849, X70844, U46745, AA489309, AA682981, D52988, AA134434, AA903135, D56210, D54461, Z19998, AA318031, 20 AA113840, AI016394, AA744934, AA780331, AI004714, T91101, AA768498, AA993774, AA908522, AA532972, AA609007, AA720792, AA687778, AI002166, W60915, AA035115, AA563593, AA845320, AA883925, AA670296, AA628513, AA676251, AA147779, W61055, AA417085, AA412533, R99348, AA421332, N75319, N28019, N30220, W20481, N68929, W16625, W52766, AA995135, N36220, AA482324, AA725042, T61686, N89859, AA112870, AI004733, AA782100, AA018416, AA975996, AA501746, AA327943, N64300, N59261, W47586, T60392, H57505, T73126, AA724357, AA258388, D54607, AA019585, AA287736, AA525839, AA782815, AA410303, AA405908, AA577338, N94329, AA370066, R46294, AA333707, AA287070, N22752, AA437333, AA613126, AA489271, N99465, AA531557, AA349277, AA305667, AA349028, AA428819, H13595, AA479601, H15827, N35917, R98916, AA403237, N40295, AI033757, W04770, AA666669, AA571981, C76660, C76658, AI035391, C85948, AA919731, AA240590, AA498824, C79954, AA259416, AA762165, AA386664, AA651368, AA697927, AI008005, AA140681, AA803316, AA799305, C24953, AI032448, H32867, D49047.

35

SEQ ID NO: 644

AC003080, AP000034, U09871, Z70691, U26310, Z75746, Z75893, U93196, U49830, AC002287, AC003043, Z36753, AE000036, AC003676, AL021469, M34482, AE000046, AF064860, U35013, AE000004, AE000035, Y10196, Z66514, Z11115, M81688, M81689, AF016414, AC000076, AE000550, M29154, L08380, U97003, D86251, U10414, AC002456, Z37964, U40423, Z70289, U80843, U41748, AC002066, U97190, AL021480, U80028, Z98753, AC002341, Z54236, AB008264, L09750, Z48007, Z84814, U10402, U95090, X56851, Z68120, AE001117, AA527268, AA431793, AA780210, W74607, AA004205, N25768, AA630321, AA854206, AA643184, AA216596, W45570, AI038928, AA811726, AI027706, N28891,

AA001737, N30763, AA603729, W90372, W92013, AA610141, AA148861, H97575, AA490320, AA535623, W94384, AA214609, W04711, AA424324, W68201, AA486288, H49322, AA678487, N73273, W02793, AA165561, AA864358, N67842, AA953621, AI034146, W68202, W30934, W15581, AA693353, AA971954, H49323, AA205308, 5-- AA648400, H44141, H97860, AA114952, N20849, AA485269, AI004353, AA766793, AA804853, AA433927, N62700, AA114829, AA825778, AA007422, AA552090, AA579359, H10401, H01442, R82009, H69533, W31657, AA702752, AA430583, AA318373, R22948, AA779558, AA216543, AA329745, T97005, R82061, W67753, AA025477, R81522, AA774128, AA775160, T97120, AA996354, H48804, R34243, Z28536, H48810, AA513115, AA025396, H44062, D78892, T35994, AA287628, AA777768, C02732, AA628646, W90371, Z19475, R62712, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA822900, AA561771, AA560406, AA097088, AA254405, AA822893, AA623299, AA200448, AA444663, AA396152, AA863792, D18314, AA560556, AA790566, AA472424, AA183321, AA116991, AA960524, AA619931, AA538093, AA545942, AA980553, AA718602, AA624507, AA690917, AA690993, W36441, AA170629, AA270487, AA688806, AA855805, W71565, AA690916, AA718699, AA756480, AA162299, AA268163, AA414642, AA510718, AA168386, AA547224, AA759545, AA177481, AA798564, AA198582, AA958885, AA840456, AA959168, AA162089, AA474849, AA244613, AA245968, AA036386, AA183584, AA939932, AA759392, W71494, AA117622, AA168119, AA277326, AA286405, AA863529, AA416281, AA849531, AA848917, AA957315, AI009528, C06826, D39911, D22377, AA605573, Z18210, C32716, C90994, AA945230, C84183, AA899962, C93176, AA943491, C89903, AA438451, AA957108, C36068, W63192, AA990991, C94217, AI012441, D73182, AA850803, AA202444, W63171, AA925071, AA924397, C54804, AA925965, T02433, AI044720, N55612, AA161699, AI037825, N96377, AA924397, C54804, AA925965, T02433, AI044720, N55612, AA161699, AI037825, N96377, AA92439 W06489, AA550648, AA676066, AA898115, C90271, AA942692, AA842873, C62969, AA712502, AA997400, AA996923, AA890788, C54452, AI045785.

SEQ ID NO: 645

30 AE000004, AP000034, AE000035, U35013, AC003080, AE000046, AE000036, U26310, Z75746, U93196, Z75893, AC002287, Y10196, AC003043, Z36753, M34482, AC003676, AF043105, AE000002, U49830, AL021469, AF064860, AE000054, U40423, AF016414, AF036444, Z37964, U09871, AC000076, AB008264, Z66497, AE001117, X56851, Z66514, Z84814, AE000550, M29154, M81689, Z68120, AC002341, Z70289, U10402, D86251, U10414, AC004644, AL008971, Z98753, M81688, U97190, U95090, U80843, Z54236, Z70691, X82684, AB010068, U41748, U80028, Z11115, L09750, AL021480, AC004540, Z48007, U97003, AA431793, AA780210, AA527268, W74607, AA004205, N25768, AA854206, AA643184, AA630321, AA216596, AI038928, W45570, AA811726, AA001737, AI027706, N30763, W90372, AA603729, W92013, AA610141, AA148861, H97575, N28891, AA490320, AA535623, AA424324, AA678487, W04711, AA486288, N73273, W02793, W94384, AA165561, W68201, N67842, AA864358, H49322, AI034146, AA953621, W15581, W68202, AA693353, AA214609, W30934, H49323, AA648400, H97860, AA205308, N20849, AA766793, AA485269, AI004353, AA804853, AA433927, N62700, H44141, AA971954, AA114829, AA825778, AA007422, AA552090, H10401, AA579359, AA114952, H01442, R82009, H69533, AA702752, W67753, AA430583, R22948, AA779558, AA318373, T97005,

The Bridge Sharper

Charles of the Control of the

R82061, AA774128, R81522, AA329745, AA775160, AA996354, W31657, H48804, R34243, Z28536, AA216543, H48810, AA025477, AA025396, AA513115, H44062, T97120, AA287628, AA777768, C02732, AA628646, D78892, T35994, W90371, Z19475, R58722, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, 5 - AA560406, AA254405, AA097088, AA561771, AA822900, AA444663, AA623299, AA200448, AA396152, AA863792, D18314, AA790566, AA183321, AA560556, AA960524, AA472424, AA116991, AA268163, AA690916, AA414642, AA288151, AA980553, AA162299, AA270487, AA718602, AA718699, AA545942, AA538093, AA619931, AA624507, W71565, AA690993, AA690917, AA170629, AA756480, AA688806, AA855805, W36441, AA798564, AA168386, AA547224, C80271, AA759545, AA208995, W36262, -AA958885, AA198582, AA546863, AA840456, AI046968, AA177481, AA896177, AA036386, AA474849, AA510718, AA959168, AA245968, AA155555, AA183584, AA759392, W71494, AA106584, AA117622, AA277326, AA286405, AA863529, AA416281, AA880395, AA939932, AA244613, AA162089, AA274576, AA048938, AA849531, AA848917, AA957315, AI009528, C32716, C23790, Z18210, D39911, AA605573, D22377, AA943491, C84183, C92834, AA945230, C90994, AA051845, C93176, AA438451, AA899962, C89903, AA550648, AA712502, AA898115, C90271, C23646, AA957108, AA925071, AA676066, AA997400, AI037825, C54452, C54804, AI012441, AA900113, W63192, D73182, C25562, C62969, AA842873, AA890788, AA996923, AI045785, T02433, N55612, AA202444, AI044720, AA942692, N96377, W06489, C36068, AA161699, C94217, AA990991, AA925965, W63171, AA924397, AA850803.

SEQID NO: 646 Additional

A Commence

The S

25

AP000034, AE000004, AE000035, AC003080, AE000046, AE000036, U35013, U26310, ... U93196, Z75893, Z75746, AC003676, AE000054, Y10196, U49830, AC002287, AF043105, AL009029, AF064860, Z36753, AL021469, AC003043, M34482, AE000002, Z66497, Z37964, M29154, L08380, Z66514, AC002456, U40423, AE000550, M81688, X56851, D86251, U12661, Z54236, AL021480, U41748, U80028, AC000076, Z11115, Z68120, AE001117, Z98753, U95090, Z70289, L09750, U80843, M81689, Z84814, AF016414, U97003, AL008971, AC002341, U10414, U10402, X82684, AF036444, U97190, AB008264, AC004644, Z48007, AA527268, AA431793, AA780210, W74607, AA004205, N25768, AA630321, AA854206, AA643184, AA216596, AI038928, W45570, AA811726, AA001737, AI027706, N28891,

- N30763, AA603729, W90372, AA610141, W92013, AA148861, H97575, AA490320, AA535623, W94384, W04711, AA424324, AA486288, AA678487, W68201, W02793, N73273, AA165561, H49322, AA864358, AA214609, N67842, AA953621, AI034146, W68202, W30934, W15581, AA693353, H49323, AA648400, H97860, AA205308, N20849, AA485269, AI004353, AA766793, AA804853, AA433927, AA114952, H44141, AA971954,
- N62700, AA114829, AA825778, AA007422, AA552090, AA579359, H10401, H01442, R82009, H69533, AA702752, AA430583, AA779558, R22948, AA318373, W31657, T97005, R82061, W67753, AA329745, R81522, AA774128, AA216543, AA775160, AA996354, AA025477, H48804, T97120, R34243, Z28536, H48810, AA513115, H44062, AA025396, D78892, T35994, AA287628, AA777768, C02732, AA628646, W90371, Z19475, R58722,
- AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406, AA254405, AA097088, AA561771, AA822900, AA822893, AA444663,

1.1.40

1.5

AA623299, AA200448, AA396152, AA960524, AA560556, AA790566, AA116991, AA472424, AA183321, D18314, AA414642, AA268163, AA690916, AA756480, AA718699, AA270487, AA288151, AA162299, AA538093, AA619931, AA545942, AA980553, AA624507, W71565, AA688806, AA690993, AA690917, AA718602, AA170629, AA855805, 5 W36441, AA849531, AA848917, AA957315, AI009528, C06826, C23790, D22377, AA605573, D39911, C32716, Z18210, C89903, C93176, AA899962, C90994, AA945230, AA438451, C84183, AA943491, AA051845, C92834, AI012441, AI045785, D73182, C62969, W06489, AA202444, AI044720, AA842873, AA890788, N55612, AA550648, C90271, AA996923, C25562, AA712502, AA997400, W63171, AA900113, AA924397, AA925071, AA957108, AA990991, C94217, W63192, AA676066, AA850803, AA925965, C36068, AA161699, C54452, AI037825, N96377, AA942692, C54804, T02433.

SEQ ID NO: 647

15

AF027390, U28686, M55673, AC004525, AF067611, U67212, AB009055, U70857, AF067216, AC000396, U95982, Z73905, AA002081, AA113127, AA831044, AA002245, AA805579, AA767554, W91985, AA430583, W91964, AA740770, AA768675, AA433927, N68306, AA765872, AA004288, AA113840, AA705271, AA903135, AA682981, R62689, AA345397, AA092407, T55643, AA356897, AA054406, T78803, AA305641, T72106, AA306222, AA001622, H00486, AA307902, W37253, R36350, AA313689, AA076252, AA085427, AA192462, AA143762, AA325775, AA177031, AA305815, AA004369, AA705484, AA001908, AA811088, H81336, AA790191, AA105116, AA790153, AI006318, AA472674, AA027542, AA672120, AA939578, AA869414, AA414094, W09603, AA238985, D76727, AI021034, AA547630, AA983116, AA619440, AA139951, AA589062, AI046894, AA152861, AA538976, AA263759, AA140709, AA686756, AA686313, AA687033, AA736059, C93720, C91205, AA820697, AA990781. "我们",这是网络新兴的人。

SEQ ID NO: 648 30

U26310, Z70691, U09871, U49830, Z70289, Z81369, U95090, U80843, L08380, AC002456, U64604,

AA527268, N28891, AA114952, AA214609, H49322, W68201, AA431793, AA780210, W94384, AA971954, W74607, AA535623, AA004205, W30934, N25768, H44141, AA643184, AA854206, AA630321, AA811726, AI038928, AA216596, W31657, AA216543, AA825778, W45570, AA001737, AA433927, N30763, AI027706, AA603729, R82009, T97120, W90372, D78892, AA610141, AA148861, AA025477, W92013, AA490320, AA678487, AA205308, H97575, AA424324, AA430583, T35994, AA318373, AA486288, W04711, AA165561,

AA329745, W02793, AA774128, H49323, N73273, AA864358, W68202, AA953621, AI034146, N67842, W15581, AA996354, AA779558, N62700, W90371, Z19475, AA648400, AA693353, R62712, AA804853, AA766793, AI004353, AA485269, N20849, H97860, AA114829, R22948, W67753, R82061, AA007422, H01442, AA579359, AA552090, H10401, AA775160, AA025396, AA287628, AA777768, AA702752, C02732, Z28536, AA513115,

R81522, H69533, R34243, H48804, AA628646, H48810, H44062, T97005, AA175464, AA200267, AA466843, AA611918, AA608178, AA396402, AA079914, AA560406,

AA254405, AA097088, AA561771, AA822900, AA822893, AA623299, AA444663, AA790566, AA183321, AA396152, AA863792, AA960524, AA538093, W36441, AA849531, AA848917, AA957315, AI009528, C06826, AA955113, D22377, D39911, C90994, AA438451, C89903, C84183, C93176, D42886, AA998608, AA990991, AI012441, T01552, N55612, AI044720, AA997400, C65333, AA925071, W63192, C62969, C54804, W63171, AA850803, AA676066, AF034791, AA898115, AA842873.

SEQ ID NO: 649

ひ ファロマルロン

10

AG000319, AG000328, AP000031, Z75739, Z60966, Z75725, AJ229063, D89894, AL023780, AC004625, N28891, AA527268, AA214609, H49322, AA971954, W68201, W94384, W30934, H44141, AA780210, AA431793, AA114952, W74607, AA535623, AA004205, AA854206, AA825778, AA643184, AA630321, AA811726, AI038928, AA216596, N25768, W45570, R82009, AA025477, AA433927, AI027706, AA001737, AA216543, N30763, AA329745, AA430583, AA603729, AA610141, AA318373, AA678487, AA490320, W31657, T97120, W90372, AA148861, AA165561, AA205308, AA424324, AA579359, H10401, AA486288, AA114829, N20849, H97860, AA766793, AI004353, AA485269, AA804853, W92013,

- AA693353, W15581, W68202, AA552090, N67842, H01442, R22948, H97575, AA775160, W04711, R82061, AA953621, N73273, W67753, W02793, AA864358, AA007422, AA996354, D78892, AA025396, AA774128, AA648400, AA287628, AA777768, R81522, AA702752, AI034146, T35994, Z28536, AA513115, R34243, H48804, H69533, H48810, H49323, H44062, T97005, AA779558, C02732, N62700, AA628646, W90371, Z19475, R62712, AA175464, AA200267, AA466843, AA608178, AA611918, AA396402, AA254405, AA561771,
 - AA097088, AA822900, AA079914, AA560406, AA822893, AA462394, AI021677, AA289614, AA499550, AA849531, AA848917, AA957315, AI009528, C89903, C84183, C06826, C93176, C90994, AA413366.

30 SEQ ID NO: 650

AA527268, AA780210, N28891, AA535623, W74607, H49322, W94384, W30934, W68201, AA854206, AA643184, AA004205, AA825778, AI038928, AA811726, H44141, AA329745, AA216596, AA214609, AA490320, H97575, N30763, W04711, AA610141, AA424324,

- N73273, AA114829, W02793, AA552090, AA693353, W68202, AA486288, AA603729, W45570, W92013, H10401, AI027706, W15581, AA766793, AA953621, AA864358, H97860, AA431793, N25768, AI034146, N20849, AA485269, W90372, AI004353, AA804853, W67753, N67842, AA579359, H01442, AA165561, AA025396, AA971954, AA007422, R82061, R22948, AA148861, AA775160, R81522, AA433927, R82009, AA001737,
- 40 AA648400, AA430583, AA777768, AA702752, AA287628, AA630321, AA678487, AA513115, AA996354, Z28536, AA318373, AA205308, C02732, AA774128, H49323, AA216543, AA779558, AA025477, AA628646, AA861724, N62700, AA114952, R58722, W31657, AA175464, AA200267, AA466843, AA608178, AA611918, AA499550, AI021677, AA957315, AA849531, AA848917, AI009701, AI029921.

45

SEQ ID NO: 651

Z84480, AC003986, Z98048, AC004633, AL009029, AC000040, AC004638, AC002310, X92185, AC000127, AC000073, AC002312, Z68870, AC003687, AC002117, AC002468, - AC002400, AC002554, AC003091, AL022098, Z99297, Z69918, AC002352, AC004149, U73628, AL021807, X65032, Z94721, AL022069, AC005159, AC003044, AJ229042, AC002430, AF051934, L09708, L78833, U66061, AC002076, U54776, AC002996, AC002300, AC004015, AL021978, U95743, AC002044, AC002496, AC004020, AC002550, AL008725, Z22585, X67330, AC004491, AC004098, AC002527, AC001644, Z75888, AP000046, AC000079, AC004026, Z73358, AC004031, AF045555, AC000068, AB009667, AC004623, Z69709, Z97196, AC002301, Z93242, Z99128, Z84474, AC002990, AC004129, AC004028, AF045450, AC004084, AC004760, AG000727, AC004475, U62293, AC003049, Z82244, X71875, AC002302, AC002351, AC000080, AL009181, Z75894, AC002390, AP000045, AP000036, D55653, Z82253, AC002425, AG000728, AC004517, AC004753, AC002455, AC003670, AC002126, AA903135, AA682981, AA489309, AA113840, D52988, D54461, AA134434, D56210, AA888777, AA640373, T52837, AA654840, AA834028, AA631497, AA330471, AA845333, AA525416, AA598617, F18761, H14617, H25846, H85053, H93717, AA632479, R94097, AA743968, AA077575, AA991824, C15811, W45283, AA350604, W45298, H12258, AA809049, AA486925, AA605266, AA668220, AA650623, AA770346, AA632765, D20297, AA844203, T04975, F07212, AA399458, H64635, AA486721, H57509, 20 N25310, AA613340, AA886682, C75321, AA534852, AA713534, AA931946, AA423992, AA829710, R99168, AA501781, AA587316, AA608520, H47461, AA909004, AA468289, D53640, AA713762, AA015672, R97290, R98644, AA650434, AA993165, AA385624, AA705197, AA713933, AA984829, AA586553, AA669434, N70293, C16687, AA631469, AA654998, AA515622, AA213891, AA608682, D25667, AA077952, C14724, AA127486, AA608682, AA608682 AA291631, AA321731, AA767115, R16472, AA491796, AA532877, AA715351, AA728861, AA6728861 C05892, H91358, H83146, R12700, AA666669, AA571981, C76660, C76658, C85948, W62449, AI035391, AA240590, C87864, W62377, W77222, AA501262, C86532, AA863851, C87922, AA516955, AA501128, C88111, AA105887, AA896910, AI042998, AA409017, AA014190, AA072329, AA072325, AA014172, AA512244, AA259416, AA395985, AA717412, C78281, W61986, AA510250, AA833194, W30012, AA032516, C79954, AA596579, AI048618, AA939912, AA059596, H39328, H39389, W06387, AI044039, AA550283, AA107123, AA957502, AA697927, AA902002, D71747, C62166, D28215, AA497283, AA849396, D39166, H32867, AI008005, AA786815, D42500, H39351, AA944871,

SEQ ID NO:652

AA784952.

35

L32205, AL010138, AL010165, AA535623, AA780210, AA527268, W74607, AA643184, AA811726, AA004205, AI038928, AA854206, AA216596, AA825778, W68201, N28891, AA001737, W45570, AA433927, N30763, AA431793, AI027706, W30934, AA630321, W94384, H49322, AA603729, N25768, AA610141, AA490320, AA678487, AA205308, AA148861, W90372, AA424324, AA214609, H44141, AA430583, AA486288, AA329745, AA774128, W02793, AA165561, W04711, AA864358, AA971954, R82009, AA318373, AI034146, AA953621, W92013, AA996354, AA648400, H49323, N73273, N20849,

AA766793, H97860, AA693353, W15581, AA485269, R22948, AA007422, AA287628, AA779558, N67842, H10401, AA552090, H97575, H01442, AA114829, Z28536, AA579359, R82061, AI004353, AA804853, W68202, W67753, AA025396, AA513115, AA775160, AA777768, AA702752, R81522, H69533, R34243, H48804, N62700, H48810, T97005, H44062, AA114952, AA628646, C02732, AA025477, AA522818, AA847619, W88844, R22141, W01459, W37320, N55020, W19783, AA200267, AA608178, AA466843, AA175464, AA611918, AA396402, AA709702, AA848917, AA849531, AA957315, AI009528, AA550586, AA697047, AA605604, Z46823, AA650644, AA413366, C30585.

10

SEQ ID NO:653

U15617, X95227, Z35849, U82293, U46745, U26742, X95226, U46744, D13643, X70844, Z79791, U76713, Z50178, U40951, J03914, AE001179, M99412, Z61539, U11869, U41992, AB002770, AF038554, AF015250, M61219, AC003013, AA489309, D56210, D52988, AA134434, AA682981, AA903135, D54461, Z19998, AA318031, AI016394, AA687778, AA993774, AA768498, AA670296, AA035115, AA147779, AA563593, N75319, AA744934, AI004714, AA628513, R99348, AA908522, AA609007, W60915, T91101, AA883925, AA532972, AA676251, AA780331, AA720792, AI002166, AA845320, AA412533, AA421332, AA417085, W61055, W47586, R46294, AA405908, D54607, N99465, AA287070, AA428819, N28019, W52766, AA370066, T61686, H57505, N64300, AA482324, T73126, T60392, AA333707, AA327943, AA349028, AA489271, AA437333, W20481, W16625, AA501746, AA349277, AA479601, AA531557, H13595, R98916, AA305667, N40910, T35084, W38703, AA670601 AA010090, AA022574, R94313, N78294, W56641, R91009, H58456, W76076, AI022640, W76076, W760 R27744, W04829, AA005123, AA010323, AA403237, AA631040, R29030, AA827225, AA005123, AI033757, AI042269, H59419, AA293537, T27962, W60575, D53706, W04770, AA313389, AA293537, W60575, AA666669, AA571981, C76660, C76658, AI035391, C85948, AA240590, AA919731, AA498824, AA762165, AA386664, C79954, AA673446, AA259416, AA959223, AA272334, AA646012, AA510541, AA154530, AA008773, AA000331, AA288429, AA657001, AI006462, AI048383, AA982490, R75019, AA571971, AA027546, AA036334, AA510889, AA796514, AA537566, AA958507, W20716, AA265324, AA023384, AA016936, AA423763, AA801268, AA875628, AA651368, AA866323, C24953, AA894266, D49047, H32867, AA850861,

35

SEQ ID NO:654

D69875, AA956796, AI008005, AI032448.

Z99273, U67953, Z81313, AC002465, AE000023, AI005405, AA770285, AA657756, AA974792, H21277, Z26749, AA836701.

40

SEQ ID NO:655

Z95152, AP000021, AC005142, M60558, D52988, AA134434, AA489309, D56210,
AA318031, D54461, AA329851, Z19998, AA330339, W31813, AA045969, AA148860,
W03446, AA682981, AA372730, AA578590, AI035391, C76658, AA919731, AA240590,

C76660, C85948, AA571981, AA666669, AA498824, AA388943, AA762165, AA472537, AA122715, AA667205, AA667224, D76492, AA666871, AA709900, Z81222, AA676087, D69875, M75876, C08849, N21886, D49047, D73949, C24953, AI035168, AA799646, AA817960, D75318, D74916, M89450.

SEQ ID NO:656

ひ ファバリマルリン

- U49830, AA527268, N28891, AA780210, W68201, AA535623, W94384, AA431793, AA854206, W74607, H49322, N25768, AA004205, AA643184, AA811726, AA214609, 10 AI038928, W30934, AA216596, AA630321, AA001737, N30763, AA433927, W45570, AI027706, AA825778, AA971954, AA603729, H44141, W90372, AA610141, AA490320, AA148861, AA678487, AA205308, AA424324, W92013, AA486288, H97575, W04711, AA430583, W02793, AA165561, R82009, H49323, AA114952, N73273, AA774128,
- AA864358, AA953621, AI034146, N67842, W68202, AA329745, AA318373, W15581, AA779558, AA648400, AA693353, N62700, AA996354, AA804853, AI004353, AA766793, AA485269, N20849, H97860, AA114829, AA025477, W31657, AA579359, AA216543, T97120, AA628646, AA007422, AA552090, H10401, AA287628, AA513115, Z28536, AA775160, R22948, R82061, W67753, H01442, AA025396, AA777768, AA702752, R81522,
- H69533, R34243, H48804, D78892, H48810, C02732, H44062, T97005, T35994, Z19475, W90371, R58722, AA175464, AA200267, AA611918, AA466843, AA608178, AA079914, AA396402, AA183321, AA790566, AA863792, AA396152, AA960524, C87361, AA183584, AA863529, W36441, AA288151, AA117622, AA547224, AA444663, C80271, AA848917, AA849531, AA957315, AI009528, AA850803, N55612, AI044720, C54804, D22377, AIO44720, C54804, AIO44720, - AA997400, D39911, W63171, AI012441, W63192.

300

SEQ ID NO:657

- X58153, AC003700, AC004245, Z50071, M30637, M30636, M30634, Z71264, M30638, U82828, D14543, M30635, Z86062, X67013, D14855, M30631, M54967, S61093, M30639, M30632, AA134490, AA159064, AA953186, H73329, R96494, H73968, R96540, H69175, H69176, N55662, R58761, AA303255, AA347299, AA669506, AA886747, AA989283, W25922, W45117, R60251, Z41321, Z43491, AA156431, H52410, N80792, N77936, R25435,
- AA399012, R87450, AA104708, AA647687, AA462737, AA959332, AA472746, W29913, AA711760, AA619743, AA647530, AA183523, F15056, C65308, C65649, D36342, C22600, AA394738, AA858604, Z34567, C22479.

SEQ ID NO:658 40

AC002294, U38766, AF032401, AC002402, U11280, AA279210, AA581835, AI024647, N54313, N52991, AA135938, AA398451, AA805397, AA218616, AA947182, AA630611, AA779113, AA595755, AA134491, AA157993, AA134938, AA626627, AA158040, R06239,

AA534688, AA779904, AA809443, H68298, AI003531, AA861636, AA116036, T51634, AA678766, AA450276, AA936183, AA976920, AA911039, AA279247, AA807738,

AA809459, AA292987, N89268, AA007497, R41218, AA001925, R51333, R60061, AA460963, AA427825, T17090, Z39514, R51518, AA001787, R44963, AA163071, AI036451, N98055, AA851535, AA964600, AA943738.

SEQ ID NO:659

L13616, AC003700, Z50071, L05186, Z66499, Z98748, AC004245, Y15465, Z68760, AL009147, AC004537, AA116035, AA158654, H73968, R96494, AA333019, H69176. AA135066, N55662, AA306686, R58761, R60251, H05371, Z43491, W45117, W25922, AA953186, AA747180, R68966, AA134490, AA214233, AA074259, AA399012, AA160995, W53000, R85615, AA574060, AI024307, D29335, N44546, AA084308, R25435, W29913. AA940093, AA619743, AA511748, AA261674, AA647530, AA538165, AA982993. AA545089, AI036424, AA529339, AA879985, W62457, AA254472, W75639, AA208822. AA004009, AA409878, AA138461, AI021080, AA616351, AA543930, AA959058, AA499502, AA475012, W63887, AA795180, W34789, C85296, AA789667, AA062063, AA547678, C78232, AA109026, AA277809, AA269482, AA260214, AA238079, AA791781, AA109714, AA106556, W91188, W65867, W14105, W07936, AA980059, AA606818, AA637257. AA623142, AA615444, AA387662, AA059859, AA000704, W35722, AA959936, AA590762, AA414947, AA397041, AA389361, AA108256, W53991, W47904, AI036933, AA666729, W12225, W13053, AA789863, AA691401, AA589224, AA499829, AA754939, AA265414, AA243924, W82018, AI006283, AA960390, AA940209, AA815912, AA217857, AA623139. AA615486, AA607101, AA473102, AA276565, AA198445, AA182161, AA008144, C88603, AA840191, AA727235, AA667550, AA655635, AA646144, AA624299, AA543548, AA590150, AA549660, C65308, D36342, C65649, C22479, AA875582, AA193756, C22600. AA650866, C35248, H35407, AA841414, AA509175, C35507, N37412, T43566, AA819961, AI011305, T37927, T43575, AI026540, AA685518.

30 SEQ ID NO:660

AC002294, AL031005, U11280, X54108, AF068865, AA595755, AA157993, AA450276, AA158040, AA779904, H68298, AA861636, AA292987, AA936183, AA807738, AA279247, AA136254, T51792, AA279210, AA581835, AA805397, AI024647, AA218616, N52991, N54313, AA135938, AA398451, R29286, AA678766, AA947182, AA134491, N89268, AA134938, AA809443, AA630611, AA779113, R06239, R41286, AA534688, AA001787, AA062924, W19463, AA001925, AA315968, T65605, D59188, AA896634, AA607867, W91279, AA008398, AA163071, AA943738, AA964600, AA899773, AA851535, AF061647, AA800313, AA754101, C60136, AA892252.

SEQ ID NO:661

40

45 SEQ ID NO:662

X58153, AC003700, AC004245, Z50071, U05230, L14595, Z68760, L19444, U82828, AA134490, AA953186, R96494, H73968, H69176, AA159064, N55662, R58761, AA116035, H73329, H69175, R96540, AA669506, AA347299, W25922, H05371, R60251, W45117, Z43491, AA214233, R99846, AA399012, N80792, AA829863, R85615, D29335, R25435, R87450, N44546, W29913, AA711760, AA619743, AA511748, AA647530, AA183523, F15056, D36342, C65308, C65649, C22479, AA858604, AA394738, C22600, Z34567, AA875582, AA661100, AA246101, C90912, T43566, C90225, AI013370, AA901147, C90941, C35248, C35507, AA650866, T43575, C89939, T20877, M89254, AA509175, N37412.

10

SEQ ID NO:663

AC002294, AC002402, U11280, AA279210, AA581835, N52991, N54313, AI024647, AA135938, AA398451, AA218616, AA805397, AA947182, AA595755, AA630611, AA779113, AA157993, AA134491, AA134938, AA626627, AA158040, R06239, AA534688, AA809443, AA779904, AA861636, H68298, AI003531, AA450276, AA116036, T51634, AA678766, AA936183, AA976920, AA911039, AA279247, AA809459, AA807738, AA292987, N89268, AA427825, AA460963, R60061, T17090, Z39514, R51518, AA001787, AA001925, R51333, R41218, AI036451, N98055, AA680515, AA754101.

20

SEQ ID NO:664

对对数学的 有数点数计

X77775, U23183, U08424, AA496841, AA404288, AA723349, AA360888, W31361,
AA338858, R34209, R18200, H46243, R18965, AA285293, AA384769, W45400, T98727,
AA961263, AA370221, AA081534, AA359557, AA292148, W31566, AA088317, AA234934,
AA908513, AA446803, AA416456, AA795971, AA240122, AA245397, AA920520,
AA692621, AA759494, C86923, AA238578, W97258, AA222646, AA655219, AA893872,
AA978469, AA264996, AA694953, AA390518, AA263890, AA949758, AA694972, W66565,
AA735504, AA802703, AA264199, AA263929, AA264168, AA940694, F13855.

SEQ ID NO:665

- Z83226, Z81584, Z11547, X85124, Z93386, L40064, AF077409, X70058, U75698, S71251, U93872, Z12297, U57623, Z47071, L04694, AL021889, Z92954, X6770, AA633258, AA133416, AA600287, T09468, AA665309, N24211, W30771, H87145, N42369, T31042, W02518, AA897191, T70084, AA179734, W03225, AA331636, T54480, AA197191, AA643516, W25677, AA133029, AA429285, AA485516, Z20993, N54094, AA469401,
- N36058, AA468795, AA232926, AA976627, AA968817, AA989208, T35134, N57107, AA876081, T35135, T35140, H39913, AA369394, AA693763, AA375648, AA057186, AA938966, AA560005, M62055, H68885, R12077, N29541, AA502313, AA503237, AA528329, AA825985, R24092, AA878673, AA521418, AA577052, AA780434, AA976558, R16054, AA056958, R50068, AA396161, AA547039, AA711435, AA509931, AA921025,
- 45 AA675673, AA522332, AA863643, AA816116, AA553002, AA210060, AA396324,

AA261181, AA921487, AA563375, AA012742, AA394675, Z25701, D72478, AA997156, C08087, AA736078, AI011604, AA051811, C58313, C56729, C36179, AA660386.

SEQ-ID-NO:666

D87675, AF001549, Z85996, AC003684, AL022165, AL021155, U91323, U91318, Z84466, U14567, AF053356, AC003108, AC002314, Z82198, AE000658, AC004491, Z77249, AC002310, AC000120, AP000050, AC002550, U91321, AF001550, Z82171, AC004383, AC003046, AC002350, AC002349, AC002549, Z95115, AC004656, AC004538, AC002394, Z99943, AP000044, AC000003, AF038458, AC004638, Z82244, Z84721, AD000092, X87344, AC002404, AC004253, AC004804, U47924, AC003026, Z93023, Y10196, AC003101, AC004539, AC002480, Z97054, AC004598, AL021154, AJ003147, U63721, U62293, U82668, AC002551, AL009177, Z84469, Z68279, AF045555, AC002378, Z82206, AC002400, AC003037, AC002288, AC002300, AC003104, AC004088, AC002982, U91326, U62317, AC003682, U52112, AC004084, AC003695, AC004583, AC002126, U85195, AC004073, AC002128, AC003007, AC002481, AP000008, Z86064, AC004646, AC002492, AC004447, AC002302, AC004706, Z98750, Z98050, Y07848, Z84480, Z82190, AC005206, AF003626, AA582842, AA534054, AA633540, AA487071, AA745638, AA180487, AA878105, AA775332, C75350, AA100431, AA984355, AA682635, AA310556, AA229904, AA252596, AA229905, T93092, AA809926, AI050699, H47413, AA376303, AA878106, AA376107, D80026, AA354019, AA309567, AA112947, AA716522, AA341699, D30826, U46318, AA015725, H47430, W39287, H91293, AA188940, AA653226, AA814389, AA228349, AA936548, H24953, W60522, AI003797, AA772906, AA228338, AA658823, AA522811, 25 AI002945, C14692, T52478, AA515631, AA643211, AA569591, AA547955, AA547970, AA454610, AA258216, AA458534, F19369, N58133, R97701, AA533534, AA112924, AA916168, AA994233, AA975736, H17731, R18870, AA535216, R22698, AA548488, AA633361, R76565, AA683130, AA600957, R08010, AA593370, AA593516, AA634252, AA605257, AA644545, H54640, AA730672, AA730646, AA234445, H51061, N74747, AA287103, AA568490, AA570255, H66503, AA602233, F00886, AA176149, R78915, N66556, R22772, N47721, R56162, AI023375, C88193, C87864, AI042727, AA261001, W64166, AA516629, AA517646, AA516955, C88111, AA501262, W71517, AI042710, W64884, W51648, AA501297, AA472555, AA463060, AA108381, AA435247, AA059835, AA059837, AA518813, W62377, AA474026, AA087147, AI046782, AI006950, AA475982, AA166247, AA920903, AA175641, AA470242, AA562102, AA710135, C76134, AA155213, C76357, AA537471, AA163800, AI042687, AA473310, AA467340, AA422893, AA939431, AA690147, AA117299, W97594, AA656883, AA561751, AA509771, AA734564, AA499521, AA189435, AA543732, AA989871, AA386489, AA684285, AA823826, W70369, AA286286, AA516943, AA237468, W30521, AA153747, AA451001, AA510369, AA815851, AA177723, AA415875, AA763476, AA110234, AA762876, AA120680, AA596459, AI005803, AA052145, AA254179, AI006123, AA267378, AA277780, AA863851, AA500278, C78950, AA492839, AA562469, AI044039, W06387, AF064463, AA923995, AA550283, Z69971, C07198, H39389, H39328, AA924608, AA874831, AA964062, AA997498, AA585956, AI011582, T42193,

H31758, AA875363, W06750, AA800963, AA943496, AA965186, AA800915, AA892677, F19756, AA946370, C08940, AI044701, H39330, AA859245, H31782, AA818187, AA851082,

AA924761, H39426, AA997533, AA788202, AA850744, AA901063, H34814, H33988, AA926052, AA818279, H32774, AI044531, AA892034.

5 SEQ ID NO:667

AB011483, Z97340, Z81509, AC000114, Z81035, AB005236, AB005237, AC002347, U51998, AC004544, AC004423, AA194905, AA164603, AA286755, AA167119, AA167166, AA830263, AA780686, AA883108, AA570671, R07429, AA846247, R37843, W31896, AA700665, AA384214, N56664, AA662688, AA101303, AA251009, AA934904, AA639524, AA576142, AA173179, AA587617, AA489636, AA179823, AA355210, N66989, AA811032, AA747929, AA418381, AA642577, AA976976, AA639805, AA680117, C16576, AA582928, AA466811, AA465808, AA066612, AA058086, AA153086, AA289102, AI037727, AA542049, AA395238, AA800765, AI045514, AI010045, AA892549, AJ227626, AA944513, AA114344, AI010261, AA966104, D70973, D86657, AA849991, AA998805, AI008014, AA785729, AA698820, AI007772.

SEQ ID NO:668

Z95328, AC004384, Z99281, L31840, AL021497, U67488, AF016662, AJ223044, M16396, M16340, M19871, Z68116, M16339, M16341, AC004369, AF030371, M27300, AL021816, Z36064, Y00513, X03282, AC000030, X58120, Z36065, U33002, U91967, AC000118, U63851, D87001, X85787, D89503, AF030368, M21696, Z21487, U17903, U09239, Z83335, U09185, AE000539, U64847, AA863014, W52480, W56770, AA765427, AA814246, AA873647, AA770312, AA732557, AA568651, AA865009, F01265, AA749297, R37952, N31652, AA044338, AA153880, AA048428, AA250241, AA254286, C87516, AA203782, C80655, AA267861, AA267128, AI047568, AI036356, C87806, D15181, AA957150, C62926, AA840894, C92658, T01937, T00926, T02209, T00295, C94356, D71947, D71783, T01675, D71622, N98004, C25514, C61667.

SEQ ID NO:669

- X97043, U04807, AC003677, AF037335, AF051882, L81669, AC004593, AL021528, Z68756, AA121077, AA326735, W48794, AA236101, H45963, AA459151, AA354204, AA084808, AA676879, AA593002, R55174, X97508, T75179, F12881, AA368125, AA151754, AA603238, AA452311, R53168, AA723764, T60040, U66687, AA897427, H17207, W95372, AA812708, H60893, W95482, AA856806, AA160710, R34891, AA317271, Z19829, W75898, AA856358, AA003370, W08075, W82868, AA690102, W11129, AA107435, AA089155, AA017868, AA048690, AA727479, AA461833, AA562528, AA562230, AA562930, AA727629, AA145018, AA672796, C80733, AA855999, AA986604, Z31226, AA000432, AA124754, W11318, AA061359, AA466218, AA856003, W13943, AA032724, D85585, AA817504, AA978764, AA978729, AA202155, C19540, AA539419, AA924434, AA858819,
- 45 AA697379.

SEQ ID NO:670

AL020992, AF068865, AE000006, L23176, D00814, D87664, X90947, AC002531, L08802, M35138, L06465, X87940, X13369, U49642, L23432, U08440, M89798, M35134, M35135, AC002378, M35137, D38508, M35136, Z96234, U24680, AA458937, AA889703, AA653968, W49620, AA642981, T57200, AA593002, AA725435, AA903402, AA027201, AA235819, AA084809, H61158, AA399478, AA293409, H62064, AA676879, T55953, AA027200, AA454941, T90533, H17823, R42888, R69560, AA184206, AA606789, W53759, AA509752, AA867237, AA103584, AA107134, AA681567, AA963531, N41264, AA022366, AA415130, AA786747.

SEQ ID NO:671

- D26549, X78479, U04354, Y13971, AF059486, AF041448, J04953, AF041449, X65371, Z29534, AB009484, X66975, AP000003, X62006, X60648, J03781, X65372, X93009, X60790, X52101, X60789, X74565, Z68104, X13871, AL008720, X13319, U31699, M97227, AE001101, X68039, D16513, X04412, U55045, D10444, X98992, AA297223, AA173831, W94379, AA767369, AA402710, N78981, AA477793, R82023, N24229, AA398270,
- AA287246, AA402311, R83487, R64484, AA464394, H42351, AA366630, R81856, R78362, AA534882, AA401797, AA430707, AA459584, AA541397, AA250858, AA452232, AA454901, R66518, AA404457, AA463569, H26083, W60964, AA188584, R15617, H42803, AA991699, AA292928, AA978201, AA991330, H26306, AA700488, AA855151, AA994947, W45721, AA743326, AA782612, AA743280, H62221, AA017180, AA019754, N98954,
- AA612690, AA994943, AA472387, AA511598, AA473866, AA462522, W54664, AA562254, AA762354, AA409040, AA667740, AA103223, AA543962, W80100, AA592243, AA691889, AA067051, AA239612, W74992, AA510839, AA880330, W98896, AA555737, AA032335, AA000407, W42118, W98220, W29218, AA423745, AA674212, AA624932, AA241020, AA472546, AA140271, AA880506, AA212842, F14654, D47825, F13580, D15888, C67840,
- N65841, T45717, T44358, T43447, AA391093, AA438301, R90252, R65202, AA392664, T43199, AA951952, R64841, T43329, L33593, AA391723, T46026, T04745, U74156, AA264205, R30497, AA979157, R64741, AA996847, T45716, AA540501.

35 SEQ ID NO:672

AP000034, AE000036, AE000046, AE000035, U35013, AC003080, AE000004, Z54140, M60558, AF029304, U09871, U26310, Z70691, U93196, Z75746, AB009529, Z75893, AL021469, AF043105, AL022153, J00332, U15617, U49830, M34482, AE000002, AC002287, AE000054, M30030, AA537368, AA007407, NB00004

- 40 AE000054, M29930, AA527268, AA007407, N28891, AA431793, AA780210, W92012, W74607, AA004205, N25768, C15995, AA114952, AA630321, AA854206, AA643184, AA216596, W45570, AI038928, AA811726, W90371, AI027706, AA001737, N30763, AA424428, W90372, AA603729, AA045835, W92013, C17881, AA610141, AA148861, W03446, AA216543, H97575, AA490320, AA535623, AA490420, W31657, W31813,
- W94384, N57577, W04711, AA310731, R76992, AA424324, AA486288, AA678487, AA011500, W68201, C15934, N73273, H49322, W02793, AA214609, AA165561, AA011499,

H10609, AA864358, N67842, AA953621, W68202, AI034146, D78892, W15581, W30934, AA903135, AA693353, H49323, AA336381, AA205308, AA648400, AA971954, H97860, H69988, AI004353, AA485269, N20849, AA804853, AA766793, AA513152, AA433927, H44141, AA206741, AA454142, AA485268, N62700, AA114829, T97120, AA299424,

- 5 R81774, AA377665, AA682981, R62712, AA825778, AA007422, AA552090, AA917730, AA579359, AA348162, D52988, AA489309, AA175464, AA727854, AA059823, AA200267, AA140441, AA032863, AA466843, AA611918, AA267387, AA760526, AA608178, W45747, W97332, AA096662, AA086866, AA896228, AI019235, AA789939, AA647949, AA561771, AA6666669, AA590556, AA822900, AA560406, AA571981, AA097088, AA396402,
- 10 AA254405, C76660, C76658, AA079914, AA822893, AI035391, AI006731, AA266201, C85948, AA919731, AA240590, AA791055, AA666667, AA726236, AA799210, AA433607, AA645630, AA762128, AA166173, AA268016, AA498824, AA881031, AA726992, W07991, AA623299, AA874625, AA200448, AA444663, AA183321, AA863792, AA472424, AA960524, AA560556, AA396152, AA116991, AA790566, D18314, AA894335, X89996,
- 15 AA849531, AA848917, AA957315, H33866, AI009528, Z81222, H32405, X93228, C06826, T43652, AA801268, C23790, C32716, AA676087, AA141062, AA605573, Z18210, D39911, D22377.

20 SEQ ID NO:673

X58153, Z50071, AC003700, AC004245, M30638, AL021880, M30639, M54967, D14855, Z97200, X67013, M30632, M30636, M30634, Z68760, M30635, Z71264, M30631, M30637, D14543, S61093, H73329, AA134490, AA159064, R96540, AA953186, H69175, R96494, AA H73968, H69176, N55662, R58761, AA303255, AA116035, H68297, N99809, AA007687, N74723, R07190, N90964, AA680414, N72663, AA347299, AI032560, AI040579, AI040370, AA669506, AA702663, AA989283, AA699880, AI052331, H50729, AA886747, AA677544, R98098, AA680079, N64446, N39020, N72788, AA701900, AA705447, AI052220, R10244, R16577, N53150, W01627, W25922, AA700016, N63669, AI032838, AI051607, T69778, H73025, N52226, H79535, T64986, W86506, AA776291, AI021907, AA679301, AI022335, T67130, H66256, H54609, H05371, N57770, R06843, AI051936, N53062, N64734, W86031, AI032477, R89438, H48262, H57697, H69675, H72606, W88659, AA011440, AA034177, AA694393, T97819, R86883, R97887, AI033339, AA704799, AA679426, N68756, Z43491, Z41321, AI022708, W04439, AA704457, AA011414, N57791, R07710, W45117, AA769855, AA704816, R25435, AA104708, W29913, AA959332, AA647687, AA472746, AA462737, AA711760, AI046986, W75714, AA172863, AA511748, AA759397, AA874539, AA619743, AA183523, AA427065, AA647530, F15056, C65308, C65649, D36342, AA875582, C22479, AA394738, AA858604, Z34567, C22600.

SEQ ID NO:674

40

AC002294, AC002402, AL031005, U38766, U11280, AF068865, X54108, AA279210, AA581835, N52991, N54313, AI024647, AA135938, AA398451, AA595755, AA157993, AA218616, AA805397, AA450276, AA947182, AA630611, AA158040, AA779113, AA134491, AA134938, AA779904, AA626627, H68298, R06239, AA534688, AA861636,

AA809443, AI003531, AA116036, T51634, AA936183, AA292987, AA678766, AA807738, AA976920, AA911039, AA279247, AA136254, T51792, AA809459, R29286, N89268, R41286, AA896634, AA607867, W91279, AA163071, AI036451, AA008398, N98055.

SEQ ID NO:689:

M11560

10 SEQ ID NO:691:

U60276

SEQ ID NO:692:

15 L19605

SEQ ID NO:694:

20 U55766

SEQ ID NO:696:

AF070717, U14571, Z73429, AC004785, M82819, AA773566, AA098877, AA279517,
AA886992, AA629913, N69507, AA279518, AA132750, C15093, W48755, AA630713,
W92961, C15141, AA669834, R76765, W92962, AA598682, AA454107, AA224364, W65387,
AA098876, AA863200, AA452524, W61291, W72931, W94226, AA992646, W48754,
AA580701, AA219402, AA364030, AA828979, AA320709, AA197313, H22885, AA633244,
AA470899, AA374705, AA311692, AA903014, AA315870, AA224225, AA809964, F00274,

The second second

- AA679478, AA093538, AA129124, AA342846, AA302541, AA705999, AA501614, AA206468, AA720732, R92404, AA628627, H57826, AA357307, AA663966, T48872, AA526193, AA130501, H63193, AI049996, AA631497, AA632479, AA593471, H74314, T78484, AI016704, AA515046, AA190895, AA983692, H05073, N64587, AA730581, W23546, AA077776, AA720702, AA655005, F17700, AA878149, AA972238, AA491814,
- AA635442, AA654761, R92629, N54902, AI049634, AA973803, AA493170, AA714956, AA838161, AA662974, AA068993, AA830594, AA601405, AA558404, AA553448, AA904211, AA493708, AA823826, C88111, W64166, AA501262, W61986, AA516955, AA501297, AA516629, AA517646, AA474026, AA517461, AA415875, C87438, W64884, W51648, AA863851, AA501128, W62377, AA501217, AA575771, AA815883, AA855776,
- 40 C87922, W71517, AA068629, AA414457, C77110, AA547030, C78926, C86532, C79035, C79044.

SEQ ID NO:697:

45 Z86000, AC002316, AP000030, AC000026, AC002059, L48038, AC002094, AC003086, AC002476, AC003982, AL008706, AC004790, AC002070, AF001549, AJ003147, AC002312,

Z82190, AC002565, Z99943, AC002400, AC003037, AC004703, Z98941, AC004257, AP000045, AC002431, AC004132, AC004417, AC003108, AF031078, AF030876, AL020997, AB001523, AC002477, AP000036, U91319, AF029308, Z97054, AC002288, Z93096, Z93023, U91323, AC002563, U91321, AC002350, AC004386, U07563, AC000379, AC002418, 5 AC001231, M89651, AC002492, AC003047, AC004098, AC004000, AC002073, AC002041, AL009181, AC004448, AC002081, AC004552, AC002558, U91326, AC003007, AC000003, U91318, L44140, U91328, AC004496, AP000031, D87675, AC002117, AL008726, AL008715, AC004753, Z83822, AC003101, AL009179, AC004217, U78027, AL022165, AC002306, AC004125, AC004263, AC004650, AC002984, AC002314, U95739, Z97183, AC002991, AC002425, AC002126, AF001548, AC005261, AF001552, K03021, AP000011, Z82195, L77569, AC000072, AA708194, AA210943, H67234, AA249143, AA564343, AA460896, AA703887, N27422, AA524863, AA652852, AA070330, F03189, AA563829, AA708240, H81553, AA027351, H66391, AA074026, AA492015, AA016279, AA017169, AA059247, AA226084, H85032, H86546, AA907782, C75526, AA904282, C75403, AA572983, AA584845, AA581895, AA631447, AA558814, AA570132, AA479877, AA443587, D29467, AA601425, H70285, W03944, AA573000, AA504776, AA805552, AA019548, AA076936, T74382, AA669741, R63301, AA911579, AA100000, AA405922, R96104, AA405798, AI039754, AA936552, H73438, H72645, AA513484, AA613626, N30650, AA729755, AA015649, N30876, AA629963, AA701047, AA719745, AA995809, N25303, AA708108, AA703675, W31678, F00320, AA132912, AA501554, AA297441, AA719726, AA572971, 20 AA513920, AA513231, AA527816, AA527841, AA481786, H62779, AA502683, AA365605, AA300061, AA525112, H03240, AA693366, AA904137, N32030, AA947763, AA740571, AA741403, AA503407, F11809, AA552955, T52478, T47739, W62377, AA986140, AA415875, W71684, AA516629, W51648, AA516955, C87864, AA517646, R75183, AA501217, AA867834; AA863851, W71592, C88193, AA022287, AA855382, AA265984, AA014476, C88111, W64166, AA261001, C81458, AA501297, W13408, AA879521, AA823826, AA762317, AA863783, AA174375, AA466109, AA472372, AI037679, C78321, AA856422, AA501262, AA561605, AA682115, W15812, AA562507, C86532, AA267728, AA516885, C78142, C79245, AA791588, AA815851, AA210215, AA462028, AA510149, AA517461, AA792334, AA793827, W62885, AA546569, C80153, AA139062, C87922, AA501128, AA711449, AA596816, AA023668, AA691333, AA427026, C78137, AA881322, AI019259, AI042727, Z69957, H39330, AI029425, AA550283, H39426, H39321, Z30905, H39389, AA923995, AA893827, AA550568, H39351, AA891239, H39328, AI010256, AA892653.

SEQ ID NO:698:

35

X76301, Z25469, L27439, X90848, Y09136, U70842, S77125, Z82265, U38906, AC004736, Z35597, Z72662, Z99496, Z73986, L13467, X99960, L22013, U73815, Z79603, AA167732, AI028439, W23466, AI025463, AA845457, AA446584, AA043787, N80102, AA286851, W15520, AA203214, AA136335, AA564286, W27182, AA046141, AA055206, AA136421, H01905, H27226, T32454, R52017, N64668, H68649, AI022543, Z43295, AA307987, AI033772, AA286852, AA312142, AA043659, AA449604, AA446711, D79463, AA046315, AA860727, D79474, D62331, D79449, T31687, D79486, AA582111, AA449345, D62277, D62267, AA055207, D79511, H01906, T30278, N43872, T30197, AI022561, AA034316, D62327, AA772965, R46766, D79478, AA676250, H28580, H24499, H83920, AA953574,

AA167827, D62359, D62179, R23692, D62237, D79476, T30198, D62209, Z39370, AA639113, AA654964, R52018, T10740, W31603, W76194, AA897292, R77246, R57121, R26648, R57863, AA969689, D45818, AA574016, T82850, R11787, H21441, AA809133, R13326, R20026, H47489, W92053, W92070, H50376, R28033, AA769318, AA768972, AA804195, AA990143, AA217311, D77641, AA175735, AA475195, AA197681, AA146435, AA790755, W64796, AA914314, AA116274, H34812, C46456, D48721, H91524, C48250, C35709.

SEQ ID NO:699:

10

U66300, AF039698, AF045432, U48696, S78798, U39066, AF033565, U65376, U52868, Z97178, U44386, AF027174, U37573, Z49980, AF033096, S83098, AF033097, AJ001103, U34048, Z86001, U41811, G29058, G29060, X99051, U95741, U48697, X99055, AC004082, U67560, U67566, AB011131, AL010216, Z81505, X67633, X57314, AF040658, X71612,

- Z46787, AF037228, AF037229, Z98549, AC003683, Y14079, Z97183, Z99109, Z81101, AC004429, AC002432, L05186, AF017104, U92821, AC004740, AC004774, U73642, U67608, U64845, Z83644, X89633, D11078, Z83230, Z75180, AA628768, AA877858, AA639879, AA928423, AA534765, AA948368, AA046419, AA476488, AA282062, AA041386, N39225, AA534439, AA970486, T65110, Z78323, R60033, T26967, F11018, H72635, T30561, R60095,
- Z39551, AA328209, F02192, AI002843, AA828237, AA191158, AA551155, AA324937, AA102729, Z44175, AA777928, AA041426, F04498, AA907747, AA328003, T65177, AI031820, T34427, AA247964, N84830, AA096046, N83168, H58760, N87989, AA089553, N55684, AA095641, N84855, N86694, N84048, N88782, AA093224, N88601, AA471338, N83991, N84718, AA247827, AA096066, N83992, N83993, N84712, N89520, N55698,
- N84723, N88496, N84828, AA093861, N88518, N84016, N84721, N56118, AA089554, AA094237, N84561, N55641, AA095359, N56555, N84602, N84733, AA215911, N55681, N84735, N84764, AA215908, N84874, N55658, N84720, N84734, N84736, N84722, N85900, AA249064, N84873, N87317, AA248551, N55697, N85031, N84563, N85930, AA122510, C76291, AA462169, AA542055, C79890, AA756608, C76124, AA207595, C76125,
- AA461732, AA120499, AA170909, AA960229, AA871528, AA415746, AA929682, AA896234, AA896879, AA269666, AA285591, AA674497, W77478, W83646, AA067612, AA921455, AA208274, AA511095, AA139335, AA140492, AA799531, AI009181, AF041408, AA933116, AA933363, C84183, C93176, H36589, C89903, T21289, AA509249, H76948, AA824745, AA550122, H07815, H07829, W51717, C28309, AA550098, Z35390, AA856224,
- 35 AA933118, AA752407, AA962878, AA433419, AA819970, D37699, AA394851, D67990, AA957045.

SEQ ID NO:700:

- AF071059, U00951, U00960, U07155, U07156, X84692, X98265, X98264, AC004226, U40411, M74208, U10324, U40944, X75560, U52953, AA044715, AA115936, N32662, T55974, AA133605, W27456, AA361607, AA065257, AA382890, AA005068, AA313921, W26569, AA344680, AA558006, AA007334, AA371086, AA343153, AA460042, AA045654, AA036884, AA804323, AA705224, AI002996, T50389, T50520, Z28526, T32573, R99233,
- 45 AA007333, AA370178, AA370142, N92665, N58504, AA807087, AA884767, AA233365, AA282826, AA601060, AA969488, T35242, AA807029, AA182543, AA181535, AA232979,

AA092778, AA649579, T55495, AA322086, AA348254, R34591, AI033827, AI033853, H88859, AA160255, AA329975, AA487643, R31743, AA475064, AA146372, AA871140, AA253642, AA003881, AA796077, AA062333, AA146239, AA087712, W41927, AA920431, AA555969, AI050529, H33770, H34706, D67255, H36826, AA900197, C61845, AI029124, AA882920.

SEQ ID NO:701:

M29204

10

SEQ ID NO:702:

Y09136, X90848, X76301, U38906, L22013, Z79603, Z81546, X99960, Z72662, W23466, N80102, AA286851, H01905, R52017, AA312142, H68649, AA043659, Z43295, AA449604, AA446711, AA203214, AA307987, W27182, T31687, AA136421, AA055206, T30197, AA582111, T30278, AA167827, R23692, AA639113, AA654964, N43872, T10740, H27226, R57121, W76194, W31603, R57863, AI025463, AI028439, AA046141, AA845457, AA446584, AA167732, H24499, AA043787, AA564286, W15520, D45818, AA574016, AA990143, D77641, AA154680, W64796, AA790755, AA914314, AA197681, AA265989, AA116274, H34812, C35709, D48721.

SEQ ID NO:703:

D87666, AF064864, Z76735, AF000982, AC002340, AF042091, Z72501, X53511; W12386 25 M88143, Z36949, AC004359, D26535, Z35776, U40270, Z93785, Z50875, X03836, Z82266 AC001230(X68577, Z35775, AE001541, AA057400, AA047729, W87409, AA135796) 2888 2888 R15559, N44337, AA702504, AA063629, AA742976, W32615, R85128, AA551773, AA447039, T06399, AA490913, AA847112, T07082, W96278, AA248197, AA229639, AA682900, AI005156, AA410455, AA091945, AA569443, AA406439, AA578709, AA489032, AA747664, AA769234, AA324390, H82736, C00609, AA282819, AA935217, AA730269. AA618569, AA778231, AA285040, H39480, AA628054, AA837128, AI005305, AA639286, AA987311, AA903597, AA902853, AA829062, AA610424, AA285126, N66825, AA903377, AA972586, AA632521, AA916359, AA578123, AA988499, AA639300, AA525374, AA631485, AA551141, AA973657, AA631901, AA903366, AA847109, AA099080, AA678350, AA604839, H53720, AA534137, AA632574, AA578021, AA640251, AA491100, AA602054, AA094372, AA026758, AA557760, AA935064, AA658510, AA707898. AA652476, AA886007, AA578255, AA468230, T69729, AA502198, AA837609, AA748046. W80468, AA470337, AA780352, AA665155, AA935201, AA564552, AA135797, AI032579, AA973283, T07200, AA733538, AA710939, AA138470, AA432980, AA210614, AA413542. AA413526, AA563275, AA656898, AA116750, AA498634, AA986621, AA174767, AA919930, AA895374, AA896038, AA733538, AA710939, AA138470, AA432980, AA210614, AA413542, AA413526, AA563275, AA656898, AA116750, AA498634,

AA986621, AA174767, AA919930, AA895374, AA896038.

45

SEQ ID NO:704:

D82348

SEQ ID NO:705:

Z97178, AF045432, U48696, S78798, U66300, AF039698, U39066, AF033565, U65376, U52868, U44386, U41811, AF027174, Z95703, AC002528, Z49980, U37573, L35736, L19494, L13454, Z25420, L49403, U66476, H10716, N83168, N83993, N84048, N84712, N86694, AA247964, H58760, AA093224, N84855, N87989, AA096066, N89520, N56555, N56118, AA959396, AA867304, AA839505, AA575337, AA874176, AA168830, AA546447, AF041408, AA735772, AA695603, N65781, AA923869, AA943734, AA532298, AA945166, Z48405, AA926333, AA933285, AA800020, AA901275, C45122, AA957144, AA850173, AA996777

15 SEQ ID NO:706

AL022394, AC004552, Z97206, Z81144, AD000091, AC004744, M86524, AC003075, AC004111, AC003099, Z95126, U96629, AC000120, Z93403, U73465, AC002519, Z95326, Z82216, AC005164, AC002066, AC004259, AC002452, AC000357, AC004536, AC002379, AC004083, AL021330, AC004008, U80017, AC002538, Z77723, AC002539, AC005176, 20 Z68326, AC004385, Z68746, AC004254, AC000049, AC004384, AC005214, Z83827, U69729, M68887, Z82205, AC005166, AC002468, Z70273, AC005161, Z95437, U71148, AC002056, Z81008, AC002426, Z70232, AL021307, AC004780, D87000, Z84470, Z68694, AP000016, AC004800, AC000365, AC003953; Z82200, AL008713, Z98754, Z84477, Z70224, AC002067, X63773, Z92547, U51244, AL009173, AC002402, AC004613, AC001608, AC002486, AC002478, N69317, AA992185, AA779937, AA826143, AA548061, F17026, AA459350, AA551109, AA299156, AA748658, AA904946, AA446110, AA489231, T06365, AA962220, AA347740, R11427, AA344409, AA767353, N84190, AA601392, AI003789, AI028382, AA890652, AA836010, AI051341, F07696, AA280689, AA744376, AA765833, AA811111, AA468571, AA493584, N26697, AA252846, AA493971, AA132716, T29138, AA069204, AI024598, AA081919, AA340015, R78997, T78394, AA902828, AA722562, AA766076, AA679855, AA852059, AA852074, N43965, AI027714, R84318, C17730, AA584498, AI032071, AA431897, AA777615, N27818, Z36956, AA129986, T06400, AA488997, AA655147, AA915228, AA986225, AA189992, AA760375, AA153172, AA760071, T41926, C31566, D34395, C54206, AA057906, C84769, D32502, C07940, C93297, C55104, AA943087, AA605420, D34506, C08204, AA257945, H35315, AA269210

SEQ ID NOS:707, 709, 711 and 712:

40

U50839, AJ006486, X96701, AC000075, U23946, Y14428, U55853, U73690, D87469, U66348, U15972, U49056, X15750, U73123, X83976, M59490, Z46757, L11710, U06631, D43920, U26259, L04656, X15209, AF020312, U88713, U88712, S80994, AA890595, AA194477, AI040915, AA808896, AA194391, AA630283, AA604807, AA151139, AA743625, AA576448, AA594332, AA554043, AA151140, AI049688, W95685, AI041568, AA492300, H29466, H29465, H50770, AA081057, R42909, AA083642, H91241, H50360, T52344,

N26936, N66716, H68058, AA928951, AA280393, AA934109, AA505844, AA355104, AA504565, D45524, R17569, F04483, T23042, AA247255, H61892, AI003120, D60896, AA442117, AI041522, AA301168, H92604, AA480590, AA989528, F08851, AA612865, F08256, AA969568, T52417, AA632042, AI038369, AA079461, AA367105, AA322594, AA902644, AA814598, AA372751, AA573311, U33921, H92264, W95714, AA679052, AA079462, H50677, AA825284, N80152, AA436772, AA325582, AA737681, AA770224, AA812204, R52021, R87930, R50149, AA298850, AA569993, H26500, H98164, N22864, AA281862, H72485, W28236, W38896, W76200, AA397991, AA326213, AA406569, AA810203, N26696, AA607276, AF064939, AA549397, AA718492, W11974, AA790829, AA718494, AA241183, AA086694, AA914805, AA823956, AA209543, AA268319, AA794261, AI042691, C80539, AA675676, AA794590, AA930627, AA795177, AA863563, AA607084, AA794703, AA960471, C85885, AA260352, AI044485, AA851524, AA851651, AA979509, H31962, AI008699, AA539524, D48514, AA440856, C74456.

 SEQ ID NO:544

ママひ ファバリマルロン

U79271, AC004636, AB006709, AF049105, Z28051, AF022655, Z28050, Z47074, AC004755, X75781, X61157, S48813, AF009623, D89245, M74822, AC004257, M98498, L23127, X53421, M87854, Y16899, D84549, U90567, M80776, M34073, U08438, U88309, S81843, U70850, AA886109, N51485, AA843811, AA102109, AA879456, AA829894, W72147, AA029201, AI033069, AA161465, AA812519, N64528, N51277, H99906, R71679, AA744290, AA099913, AI038590, AA083859, AA883684, R39448, R36854, H98684, R07471, AA910762, AA083954, AA346369, R54092, H09074, N21975, D59844, H11525, AA971254, W77907, AA878973, AA715235, AA328928, W29097, AA860455, AA026096, AA026516, T26899, N71178, AA372290, AI038890, AA252245, W05501, AI039908, AA938631, AI016407, N70619, AA242923, AA973566, AA985290, AA995707, D81647, AA452630, N27253, AA682624, A252941, AA780678, AA280664, T09391, AA742364, AA907234, AA161236, AA155014, AA269966, AA089195, AA690806, AA466212, AA423476, AA591111, AA153891, AA967806, W65797, AA734052, W53738, AA175557, AA048480, AA027381, W66734, AA968020, AA230895, AA879531, AI019772, W18052, F20017, AA433457, AA550452, AI044911, AA786697,

SEQ ID NO:545

AB011172, AB006626, AC002124, AC002410, AC002088, AD001502, U58776, M92914, Z21721, D25543, Z46598, AL023874, AB004317, L77566, U53786, AF004877, X51780, U31342, X54296, D85375, AC003033, M57425, AC004471; AF039241, AF039241 AA617796. 17. 超精神原物的建筑。

工建筑树花的两位

SOME AND STRUCTURE

AA488201,

AA515666.

W51949.

AA194873,

AA622411.

AA927444, AA927444 om70d12.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 731 0.0 W52500, W52500 zd13d02.rl Soares fetal heart NbHH19W Homo sap... 728 0.0 R64670, R64670 yi22c09.s1 Homo sapiens cDNA clone 139984 3'. AA057030, AA057030 zk78b03.r1 Soares pregnant uterus NbHPU Ho... 698 0.0 AA496417, AA496417 zv37b03.rl Soares ovary tumor NbHOT Homo s... 686 0.0 AA116072, AA116072 zm79e11.rl Stratagene neuroepithelium (#93... 678 0.0 AA042995, AA042995 zk56b07.rl Soares pregnant uterus NbHPU Ho... 668 0.0 H69274, H69274 EST00070 Homo sapiens cDNA clone HE6WCR117 5'. AA047371, AA047371 zk78b03.s1 Soares pregnant uterus NbHPU Ho... 658 0.0 R64669, R64669 yi22c09.r1 Homo sapiens cDNA clone 139984 5'. 654 0.0 AA116073, AA116073 zm79e11.s1 Stratagene neuroepithelium (#93... 634 e-180 AA160894, AA160894 zo79c05.s1 Stratagene pancreas (#937208) H... 632 e-179 AA425945, AA425945 zv84a12.s1 Soares total fetus Nb2HF8 9w Ho... 595 e-168 AA436368, AA436368 zv32f05.s1 Soares ovary tumor NbHOT Homo s... 585 e-165 AA975130, AA975130 on06f01.s1 NCI_CGAP_Lei2 Homo sapiens cDNA... 579 e-163 AA885226, AA885226 am34e06.sl Soares NFL T GBC Sl Homo sapien... 559 e-157 AA912472, AA912472 ol96e03.s1 NCI_CGAP_PNS1 Homo sapiens cDNA... 555 e-156 AA320935, AA320935 EST23388 Adipose tissue, white II Homo sap... 553 e-155

AA042872, AA042872 zk56b07.s1 Soares pregnant uterus NbHPU Ho... 543 e-152 T08932, T08932 EST06824 Homo sapiens cDNA clone HIBBM46 5' end. 537 e-150 AA488258, AA488258 ad08f07.rl Soares NbHFB Homo sapiens cDNA ... 533 e-149 T19350, T19350 h03012t Testis 1 Homo sapiens cDNA clone h0301... 496 e-138 H87681, H87681 yw15e04.rl-Homo sapiens cDNA clone 252318 5'. - 490-e-136 H81522, H81522 yu61h08.rl Homo sapiens cDNA clone 230655 5'. 466 e-129 T49620, T49620 ya77g03.s1 Homo sapiens cDNA clone 67732 3'. 452 e-125 R14363, R14363 yf80d10.r1 Homo sapiens cDNA clone 28995 5' si... 446 e-123 AA211476, AA211476 zp75h11.s1 Stratagene HeLa cell s3 937216 ... 430 e-118 N46636, N46636 yy48a09.r1 Homo sapiens cDNA clone 276760 5'. 424 e-116 Z17358, HSDHII065 H. sapiens partial cDNA sequence; clone-HI... 416-e-114---R40737, R40737 yf80d10.s1 Homo sapiens cDNA clone 28995 3'. 400 e-109 AA410278, AA410278 zv32f05.rl Soares ovary tumor NbHOT Homo s... 383 e-104 AA496574, AA496574 zv37b03.s1 Soares ovary tumor NbHOT Homo s... 375 e-101 N34907, N34907 yy48a09.s1 Homo sapiens cDNA clone 276760 3'. 371 e-100 T49619, T49619 ya77g03.rl Homo sapiens cDNA clone 67732 5'. 355 1e-95 AA301480, AA301480 EST14551 Thymus III Homo sapiens cDNA 5' end 341 2e-91 R31593, R31593 yh76f03.s1 Homo sapiens cDNA clone 135677 3'. AA984591, AA984591 am89d10.s1 Stratagene schizo brain S11 Hom... 313 4e-83 AA338831, AA338831 EST43831 Fetal brain I Homo sapiens cDNA 5... 238 2e-60 T07305, T07305 EST05194 Homo sapiens cDNA clone HFBEG86. 230 4e-58 ar AA159942, AA159942 zo79c05.r1 Stratagene pancreas (#937208) H... 204 3e-50 R57355, R57355 F2878 Fetal heart Homo sapiens cDNA clone F287... 196 6e-48 3535 353. AA729237, AA729237 nx35c08 s1 NCI CGAP GC4 Homo sapiens cDNA ... 192718-46 7 AA877709, AA877709 nr09g11.s1 NCI CGAP Co10 Homo sapiens cDNA... 172.9e-410000 AA969195, AA969195 op51c03.s1 Soares NFL T GBC S1 Homo sapien... 107. 46424195. AA327432, AA327432 EST30768 Colon I Homo sapiens cDNA 5' end 80 1e-12 % (3). AA854147, AA854147 aj71f01.s1 Soares parathyroid tumor NbHPA ... 74 6e-11 AA983156, AA983156 oq51g09.s1 NCI CGAP Kid5 Homo sapiens cDNA... 66 2e-08 H09529, H09529 yl95h10.s1 Homo sapiens cDNA clone 46129 3'. 66 2e-08 AA286791, AA286791 zs54h07.r1 NCI CGAP GCB1 Homo sapiens cDNA... 66 2e-08 W04418, W04418 za43c06.rl Soares fetal liver spleen 1NFLS Hom... AA101045, AA101045 zm27e12.rl Stratagene pancreas (#937208) H... AA064706, AA064706 zm13f07.rl Stratagene pancreas (#937208) H... 42 0.22 AA810035, AA810035 od11f12.s1 NCI CGAP GCB1 Homo sapiens cDNA... T41169, T41169 ya31g10.s3 Homo sapiens cDNA clone 62274 3' co... AA070108, AA070108 zm69d06.s1 Stratagene neuroepithelium (#93... AA706183, AA706183 ag93e01.s1 Stratagene hNT neuron (#937233)... AA393069, AA393069 zt69e09.rl Soares testis NHT Homo sapiens ... 40 0.86 AA371600, AA371600 EST83650 Pituitary gland, subtracted (prol... 40 0.86 AA977820, AA977820 oq78a09.s1 NCI CGAP Kid6 Homo sapiens cDNA... 38 3.4 AA584760, AA584760 no04c06.s1 NCI_CGAP_Phe1 Homo sapiens cDNA... 38 3.4 AA584615, AA584615 no08g12.s1 NCI CGAP Phel Homo sapiens cDNA... 38 3.4 AA229827, AA229827 nc48c04.rl NCI CGAP Pr3 Homo sapiens cDNA ... 38 3.4 W21398, W21398 zb50a11.rl Soares fetal lung NbHL19W Homo sapi... 38 3.4

AA136933, AA136933 zn97f07.s1 Stratagene fetal retina 937202 ... 38 3.4

** V /// U 7#U U

AA869501, AA869501 vq08g11.r1 Barstead stromal cell line MPLR... 833 0.0 AA221749, AA221749 my28g01.rl Barstead mouse pooled organs MP... 789 0.0 AA271363, AA271363 va71d08.r1 Soares mouse 3NME12 5 Mus muscu... 781 0.0 AA544727, AA544727 vk35d01.rl Soares mouse mammary gland NbMM... 773 0.0 W84968, W84968 mf42e02.rl Soares mouse embryo NbME13.5 14.5 M... 640 0.0 AA153324, AA153324 ms61e11.rl Stratagene mouse embryonic carc... 617 e-175 AA673899, AA673899 vo86g07.rl Barstead mouse irradiated colon... 583 e-164 AA797488, AA797488 vw28a05.rl Soares mouse mammary gland NbMM... 519 e-145 W71831, W71831 me45b06.rl Soares mouse embryo NbME13.5 14.5 M... 472 e-131 AA213358, AA213358 mu74e04.r1 Stratagene mouse embryonic carc... 444 e-123 W75918, W75918 me82f05.rl Soares mouse embryo NbME13.5 14.5 M... 444 e-123 AA038141, AA038141 mi81e05.rl Soares mouse p3NMF19.5 Mus musc... 359 3e-97 AA038288, AA038288 mi83b04.rl Soares mouse p3NMF19.5 Mus musc... 323 1e-86 AA017742, AA017742 mh40c03.r1 Soares mouse placenta 4NbMP13.5... 297 8e-79 AA771297, AA771297 vt17g04.r1 Barstead mouse myotubes MPLRB5 ... 297 8e-79 AA105228, AA105228 mp45b11.r1 Barstead MPLRB1 Mus musculus cD... 295 3e-78 AA068340, AA068340 mm53f01.r1 Stratagene mouse embryonic carc... 293 1e-77 AA612347, AA612347 vo05c08x1 Stratagene mouse skin (#937313)... 281 5e-74 AA038300, AA038300 mi83d04.rl Soares mouse p3NMF19.5 Mus musc... 270 2e-70 AA500952, AA500952 vg01h04.rl Soares mouse NbMH Mus musculus ... 252 4e-65 W08368, W08368 mb41f07.r1 Soares mouse p3NMF19.5 Mus musculus... 212 4e-53 AA052280, AA052280 ma82e12.r1 Soares mouse p3NMF19.5 Mus musc... 123 3e-26 AA064466, AA064466 ml49c05.rl Stratagene mouse testis (#93730... 107 2e-21 AA271566, AA271566 vb74b09.rl Soares mouse 3NME12 5 Mus muscu... 60 3e-07 C86222, C86222 Mus musculus fertilized egg cDNA 3'-end seque... 42 0.078 W83632, W83632 mf31a04.r1 Soares mouse embryo NbME13.5 14.5 M... 42 0.078 AA423627, AA423627 ve80f01.r1 Soares mouse mammary gland NbMM... 42 0.078 AA036586, AA036586 mi41h08.rl Soares mouse embryo NbME13.5 14... 42 0.078 AA207496, AA207496 mv78g02.rl GuayWoodford Beier mouse kidney... 42 0.078 AA120433, AA120433 mp82h11.r1 Soares 2NbMT Mus musculus cDNA ... 42 0.078 W08185, W08185 mb42h02.r1 Soares mouse p3NMF19.5 Mus musculus... 38 1.2 AA065563, AA065563 ml71b06.rl Stratagene mouse kidney (#93731... 38 1.2 AA288756, AA288756 mr46h07.r1 Life Tech mouse embryo 15 5dpc ... 38 1.2 AA119334, AA119334 mp80e10.r1 Soares 2NbMT Mus musculus cDNA ... 38 1.2 AA163051, AA163051 ms24a10.r1 Stratagene mouse skin (#937313)... 38 1.2 N28074, N28074 MDB1392R Mouse brain, Stratagene Mus musculus ... 38 1.2 AA288757, AA288757 mr46h08.rl Life Tech mouse embryo 15 5dpc ... 38 1.2 AA122857, AA122857 mq06a02.r1 Soares 2NbMT Mus musculus cDNA ... 38 1.2 AA617519, AA617519 vj77d05.r1 Knowles Solter mouse blastocyst... 38 1.2

```
W89420, W89420 mf80b03.rl Soares mouse embryo NbME13.5 14.5 M...
               AI047837, AI047837 ud64c11.x1 Sugano mouse liver mlia Mus mus... 38 1.2
               AA840310, AA840310 vw91a10.rl Stratagene mouse skin (#937313)... 36 4.8
               AA986428, AA986428 ue13b04.x1 Sugano mouse embryo mewa Mus mu... 36 4.8
               W47677, W47677 mc89g07.rl Soares mouse embryo NbME13.5 14.5 M... - 36-4.8 -
               AA057996, AA057996 mi56c10.rl Soares mouse embryo NbME13.5 14... 36 4.8
               AA183858, AA183858 mo95h01.rl Stratagene mouse testis (#93730... 36 4.8
               AA212232, AA212232 mu43e08.rl Soares 2NbMT Mus musculus cDNA ... 36 4.8
               W41067, W41067 mc39a06.rl Soares mouse p3NMF19.5 Mus musculus... 36 4.8
               AA967594, AA967594 uh01d06.rl Soares mouse hypothalamus NMHy ... 36 4.8
               AA414093, AA414093, vc64c07, s1 Knowles Solter mouse 2 cell Mus... 36-4.8
               AA123833, AA123833 mp93c03.rl Soares 2NbMT Mus musculus cDNA ... 36 4.8
               AA432920, AA432920 vd91b11.rl Soares mouse NbMH Mus musculus ... 36 4.8
                AA874496, AA874496 vx03a08.r1 Soares 2NbMT Mus musculus cDNA ... 36 4.8
                AA000433, AA000433 me76e09.rl Soares mouse embryo NbME13.5 14... 36 4.8
                AA023983, AA023983 mh94a07.r1 Soares mouse placenta 4NbMP13.5...
                AA013726, AA013726 mh12e09.rl Soares mouse placenta 4NbMP13.5...
                AA274648, AA274648 vb08c01.rl Soares mouse NML Mus musculus c...
                AA140347, AA140347 mq89g06.rl Stratagene mouse heart (#937316... 36 4.8
                AA499377, AA499377 vi89c07.rl Stratagene mouse heart (#937316... 36 4.8
                C88747, C88747 Mus musculus early blastocyst cDNA, clone 01B... 36 4.8
 . 1987年第四日 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997
    AA763007, AA763007 vw60b05.rl Soares mouse mammary gland NMLM.: 36 4.8 3 0
3648 W 59064, W 59064 m d67e10.rl Soares mouse embryo NbME13.5 14.5 M 3648 Selver of
               AA103519, AA103519 mo24b12.rl Life Tech mouse embryo 13 5dpc ... 36 4.8 and the
                AA222310, AA222310 my14d08.rl Barstead mouse heart MPLRB3 Mus... 36 4.8
                W83557, W83557 mf32d02.r1 Soares mouse embryo NbME13.5 14.5 M...
                AA168631, AA168631 ms33c05.rl Stratagene mouse skin (#937313)... 36 4.8
                AA960143, AA960143 vw60b05.s1 Soares mouse mammary gland NMLM...
                 W34557, W34557 mc58a05.r1 Soares mouse embryo NbME13.5 14.5 M... 36 4.8
                 W98818, W98818 mf94e06.rl Soares mouse embryo NbME13.5 14.5 M... 36 4.8
                 AA008527, AA008527 mg85h01.r1 Soares mouse embryo NbME13.5 14... 36 4.8
                 AA008734, AA008734 mg86h03.rl Soares mouse embryo NbME13.5 14...
                 AA510568, AA510568 vg33a10.rl Soares mouse mammary gland NbMM... 36 4.8
                 AA672524, AA672524 vo59e11.rl Soares mouse mammary gland NbMM... 36 4.8
                 AA052773, AA052773 mf24h01.r1 Soares mouse embryo NbME13.5 14... 36 4.8
                 AA096626, AA096626 mo09h06.rl Life Tech mouse embryo 10 5dpc ... 36 4.8
                 AA124880, AA124880 mp73e06.rl Soares 2NbMT Mus musculus cDNA ...
                 AA198005, AA198005 mv12b09.rl GuayWoodford Beier mouse kidney...
                 AA624213, AA624213 vm98h06.rl Knowles Solter mouse blastocyst... 36 4.8
                 AA521863, AA521863 vi08b01.rl Barstead mouse myotubes MPLRB5... 36 4.8
                 AA692113, AA692113 vt19d03.rl Barstead mouse myotubes MPLRB5 ...
                 W71551, W71551 me39e11.rl Soares mouse embryo NbME13.5 14.5 M...
```

: 1 - Ar

11

77 W 22/0740

AA646501, AA646501 vn12g12.r1 Stratagene mouse heart (#937316... AA607056, AA607056 vm95e05.rl Knowles Solter mouse blastocyst... 36 4.8 AA163340, AA163340 ms65b10.r1 Stratagene mouse embryonic carc... 36 4.8 AA110893, AA110893 mm02b04.rl Stratagene mouse kidney (#93731... 36 4.8 AI030290, AI030290 UI-R-C0-jb-d-01-0-UI.s1 UI-R-C0 Rattus nor... 293 1e-77 C71833, C71833 Rice cDNA, partial sequence (E0428_1A) 44 0.017 AA926551, AA926551 TENS1173 T. cruzi epimastigote normalized ... 42 0.069 AA875699, AA875699 TENU0170 T.cruzi epimastigote normalized c... 42 0.069 AA567661, AA567661 HL01595.5prime HL Drosophila melanogaster ... 40 0.27 C74504, C74504 Rice cDNA, partial sequence (E31753_1A) 40 0.27 AA698333, AA698333 HL04291.5prime HL Drosophila melanogaster ... AA441429, AA441429 LD16359.5prime LD Drosophila melanogaster ... N68770, N68770 TgESTzy35b12.rl TgRH Tachyzoite cDNA Toxoplasm... AA246440, AA246440 LD05311.5prime LD Drosophila melanogaster ... 38 1.1 AA801776, AA801776 GM12975.5prime GM Drosophila melanogaster ... 38 1.1 N69148, N69148 TgESTzy33d10.rl TgRH Tachyzoite cDNA Toxoplasm... 38 1.1 AA536484, AA536484 LD17114.5prime LD Drosophila melanogaster ... AA392544, AA392544 LD11451.5prime LD Drosophila melanogaster ... AA202696, AA202696 LD03182.5prime LD Drosophila melanogaster ... 38 -1.1 AA392367, AA392367 LD11287.5prime LD Drosophila melanogaster ... 38 1.1 AA264629, AA264629 LD08245.5prime LD Drosophila melanogaster ... 38 1.1 AA735318, AA735318 LD21104.5prime LD Drosophila melanogaster ... 38 1.1 77 194 **20** 20 20 20 AA264558, AA264558 LD08333.5prime LD Drosophila melanogaster ... 38 1.1 1-1-55(\$)...; AA536476, AA536476 LD17106.5prime LD Drosophila Embryo Drosop......38 1.1 AA957774, AA957774 UI-R-E1-fv-f-04-0-UI.s1 UI-R-E1 Rattus nor... 38 1.1 AA567991, AA567991 HL02092.5prime HL Drosophila melanogaster ... 38 1.1 AA957876, AA957876 UI-R-E1-fv-f-04-0-UI.s2 UI-R-E1 Rattus nor... 38 1.1 AA892488, AA892488 EST196291 Normalized rat kidney, Bento Soa... AA699001, AA699001 HL06668.5prime HL Drosophila melanogaster ... 36 4.3 C19706, C19706 Rice cDNA, partial sequence (E10809_1A) 36 4.3 D41773, RICS4574A Rice cDNA, partial sequence (S4574_2A). 36 4.3 C40680, C40680 C.elegans cDNA clone yk247c4: 5' end, single... AA698625, AA698625 HL05354.5prime HL Drosophila melanogaster ... C82819, C82819 Oryctolagus cuniculus corneal endothelial cDN... D46016, RICS10393A Rice cDNA, partial sequence (S10393_3A). 36 4.3 AA536314, AA536314 LD16858.5prime LD Drosophila melanogaster ... AA801012, AA801012 EST190509 Normalized rat muscle, Bento Soa... 36 4.3 D46541, RICS11289A Rice cDNA, partial sequence (S11289 1A). 36 4.3 D47315, RICS12612A Rice cDNA, partial sequence (S12612 1A). 36 4.3 AA735857, AA735857 GM09977.5prime GM Drosophila melanogaster ... AA753921, AA753921 97BS0370 Rice Immature Seed Lambda ZAPII c... D47243, RICS12505A Rice cDNA, partial sequence (S12505_1A). AA978395, AA978395 LD28411.5prime LD Drosophila melanogaster ...

D15134, RICC0136A Rice cDNA, partial sequence (C0136A). 36 4.3
D46483, RICS11185A Rice cDNA, partial sequence (S11185 1A). 36-4.3
D46618, RICS11395A Rice cDNA, partial sequence (S11395 1A). 36 4.3
D46659, RICS11457A Rice cDNA, partial sequence (S11457 1A). 36 4.3
D46719, RICS11572A Rice cDNA, partial sequence (S11572 1A). 36 4 3
D48579, RICS14880A Rice cDNA, partial sequence (S14880 2A). 36 4 3
AA802334, AA802334 GM04219.5prime GM Drosophila melanogaster 36, 4, 3
D46066, RICS10470A Rice cDNA, partial sequence (S10470 1A). 36 4.3
D47037, RICS12104A Rice cDNA, partial sequence (S12104 1A). 36 4.3
D46874, RICS11807A Rice cDNA, partial sequence (S11807 2A). 36 4.3
D47174, RICS12340A Rice cDNA, partial sequence (S12340 2A). 36 4.3
T04578, T04578 625 Lambda-PRL2 Arabidopsis thaliana cDNA clon 36 4.3
C83675, C83675 Oryctolagus cuniculus corneal endothelial cDN 36 4.3
D47950, RICS13762A Rice cDNA, partial sequence (\$13762 1A). 36 4 3
R90044, R90044 16399 Lambda-PRL2 Arabidopsis thaliana cDNA cl 36 4.3
D46994, RICS12013A Rice cDNA, partial sequence (S12013 2A). 36 4.3
AA440820, AA440820 LD15713.5prime LD Drosophila melanogaster 36 4 3
C72089, C72089 Rice cDNA, partial sequence (E0963 1A) 36 4.3
Z84004, SSZ84004 S.scrofa mRNA; expressed sequence tag (5'; 36 4.3
D47519, RICS13070A Rice cDNA, partial sequence (\$13070 1A). 36 43
C19735, C19735 Rice cDNA, partial sequence (E10858 1A) 36 4.3
D47231, RICS12462A Rice cDNA, partial sequence (S12462 1A). 36 4.3
D47147, RICS12293A Rice cDNA, partial sequence (S12293, 1A). 36, 43
AA950198, AA950198 LD30147.5prime LD Drosophila melanogaster 36 4.3
Z47624, ATTS4480 A. thaliana franscribed sequence; clone TAI 36 4.3
D45955, RICS10259A Rice cDNA, partial sequence (S10259 1A). 36 43
D47137, RICS12280A Rice cDNA, partial sequence (S12280 1A). 36 4.3
D69927, CELK093H2F C.elegans cDNA clone yk93h2: 5' end. sin 36, 4.3
AA392275, AA392275 LD11117.5prime LD Drosophila melanogaster 36 4.3

SEQ ID NO:546

D87455, D87455 Human mRNA for KIAA0266 gene, complete cds
Z99129, HS425C14 Human DNA sequence from clone 425C14 on chr... 42 0.20
D90900, D90900 Synechocystis sp. PCC6803 complete genome, 2/... 40 0.80
Z74281, SCYDL233W S.cerevisiae chromosome IV reading frame O... 38 3.1
AL021528, HS394P21 Homo sapiens DNA sequence from PAC 394P21... 38 3.1
Z49155, HSL83D3 Human DNA from cosmid L83d3, Huntington's Di... 38 3.1
U33761, HSU33761 Human cyclin A/CDK2-associated p45 (Skp2) mR... 38 3.1
AF052832, AF052832 Trypanosoma cruzi CL Brener cosmid 1b21 ch... 38 3.1
Z98600, SPAC20G4 S.pombe chromosome I cosmid c20G4 38 3.1

Y09438, SPHUSPLUS S.pombe hus1+ gene 38 3.1
D29951, MUSKIF Mouse mRNA for kinesin family protein KIF1a, ... 38 3.1

HUMAN ESTs

AA151187, AA151187 zo03c11.r1 Stratagene colon (#937204) Homo... 694 0.0

AA824593, AA824593 oc83d10.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 670 0.0

AA954862, AA954862 op20c03.s1 NCI_CGAP_Co12 Homo sapiens cDNA... 581 e-164

T16360, T16360 NIB1193 Normalized infant brain, Bento Soares ... 517 e-145

R54592, R54592 yg81h10.s1 Homo sapiens cDNA clone 40102 3'. 511 e-143

AA373594, AA373594 EST85631 HSC172 cells I Homo sapiens cDNA ... 507 e-142

AA100660, AA100660 zl90a05.r1 Stratagene colon (#937204) Homo... 383 e-104

R42009, R42009 yg05b04.s1 Homo sapiens cDNA clone 31336 3'. 379 e-103

AA249614, AA249614 k3041.seq.F Human fetal heart, Lambda ZAP ... 252 5e-65

AA360633, AA360633 EST69800 T-cell lymphoma Homo sapiens cDNA... 182 4e-44

AA053498, AA053498 zl70b11.r1 Stratagene colon (#937204) Homo... 38 1.5

AA992442, AA992442 or85h03.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 38 1.5

Total Santa Maria

AA065677, AA065677 mm43c03.r1 Stratagene mouse melanoma (#937... 297 4e-79 AA529728, AA529728 vi38g12.r1 Beddington mouse embryonic regi... 42 0.035 W91608, W91608 MTA.D10.092.A MTA adult mouse thymus library M... 42 0.035 AA177186, AA177186 mt51a11.r1 Stratagene mouse embryonic carc... 42 0.035 AA048008, AA048008 mj26h10.r1 Soares mouse embryo NbME13.5 14... 36 2.2 AA637535, AA637535 vu10c02.r1 Barstead mouse myotubes MPLRB5 ... 36 2.2 AA726355, AA726355 vu90c09.r1 Stratagene mouse skin (#937313)... 36 2.2 AA404025, AA404025 va31c11.r1 Guay Woodford Beier mouse kidney... 36 2.2 AA870617, AA870617 vq23h10.r1 Barstead stromal cell line MPLR... 36 2.2 AA414112, AA414112 vc64f08.s1 Knowles Solter mouse 2 cell Mus... 36 2.2 AA764250, AA764250 vv49e09.r1 Soares 2NbMT Mus musculus cDNA ... 36 2.2

H34350, H34350 EST111226 Rat PC-12 cells, NGF-treated (9 days... 36 1.9 C40718, C40718 C.elegans cDNA clone yk247f9: 5' end, single... 36 1.9 AA817925, AA817925 UI-R-A0-af-g-04-0-UI.s1 UI-R-A0 Rattus nor... 36 1.9 AA955650, AA955650 UI-R-E1-fc-e-10-0-UI.s1 UI-R-E1 Rattus nor... 36 1.9

SEQ ID NO:547

- 1325.7 - 13883

NOW SELECTION OF THE PARTY OF T

U66201, MMU66201 Mus musculus fibroblast growth factor homolo... 42 0.35
U66197, HSU66197 Human fibroblast growth factor homologous fa... 42 0.35
AF020738, AF020738 Mus musculus fibroblast growth factor-rela... 42 0.35
U85773, HSU85773 Human phosphomannomutase (PMM2) mRNA, comple... 40 1.4
Z46966, MMIMOGN44 M.musculus mRNA for imogen 44. 40 1.4
AC004301, AC004301 Drosophila melanogaster DNA sequence (P1 D... 40 1.4
U86662, LEU86662 Lycopersicon esculentum VPS41 (tVPS41) mRNA,... 40 1.4

HUMAN ESTs

W22160, W22160 63A6 Human retina cDNA Tsp509I-cleaved sublibr... 791 0.0 AA860926, AA860926 ak22d06.s1 Soares testis NHT Homo sapiens ... 650 0.0 AA348243, AA348243 EST54707 Hippocampus I Homo sapiens cDNA 5... 513 e-143 AA551799, AA551799 nk04a11.s1 NCI_CGAP_Co2 Homo sapiens cDNA ... 363 4e-98 AA327309, AA327309 EST30621 Colon I Homo sapiens cDNA 5' end 353 3e-95 AA344913, AA344913 EST50856 Gall bladder II Homo sapiens cDNA... 337 2e-90 AA121174, AA121174 zl88g08.s1 Stratagene colon (#937204) Homo... 317 2e-84 AA121198, AA121198 zl88g08.rl Stratagene colon (#937204) Homo... 317 2e-84 AA001561, AA001561 ze46e07.s1 Soares retina N2b4HR Homo sapie... AA888147, AA888147 04h11.s1 NCI_CGAP_Co10 Homo sapiens cDNA... 40 0.67 AA946650, AA946650, oq38h09.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... AA435587, AA435587 zt85d07.s1 Soares testis NHT Homo sapiens ... 40 0.67 AA806381, AA806381-oc22g05.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.67 AA577174, AA577174 nm86e11 s1 NCI_CGAP_Co9 Homo sapiens cDNA ... 40 0.67 AA215903, AA215908 hp0042.seq.F-Fetal heart, Lambda ZAP Expre... 40 0.67 AA262229, AA262229 zs25b12.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... AA969632, AA969632 op38h05.s1 Soares_NFL_T_GBC_S1 Homo sapien... 40 0.67 N35888, N35888 yy28b05.s1 Homo sapiens cDNA clone 272529 3'. 40 0.67 AI005324, AI005324 ou13h07.x1 Soares_NFL_T_GBC_S1 Homo sapien... 40 0.67 AA172158, AA172158 zp29a01.s1 Stratagene neuroepithelium (#93... AA860208, AA860208 ak48c10.s1 Soares testis NHT Homo sapiens ... 40 0.67 AA814296, AA814296 nz07d08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.67 AA873216, AA873216 oh70f04.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 40 0.67 AA403143, AA403143 zv66d01.r1 Soares total fetus Nb2HF8 9w Ho... 40 0.67 W45005, W45005 zc05c12.r1 Soares parathyroid tumor NbHPA Homo... 40 0.67 W32428, W32428 zc05c12.s1 Soares parathyroid tumor NbHPA Homo... 40 0.67 AA974988, AA974988 on59b06.s1 Soares_NFL_T_GBC_S1 Homo sapien... AA725024, AA725024 ah97h10.s1 Soares NFL T GBC S1 Homo sapien... 40 0.67 AA757360, AA757360 ah98a01.s1 Soares NFL T GBC S1 Homo sapien... 40 0.67 N72025, N72025 yz96g02.s1 Homo sapiens cDNA clone 290930 3'. 40 0.67 R02514, R02514 ye70b08.rl Homo sapiens cDNA clone 123063 5'. 40 0.67 AA039536, AA039536 zk39h10.s1 Soares pregnant uterus NbHPU Ho... 40 0.67 AA877455, AA877455 ob33g01.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... AA041240, AA041240 zf07g05.rl Soares fetal heart NbHH19W Homo...

```
AA903406, AA903406 ok62c11.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 40 0.67
       AA461270, AA461270 zx63b07.rl Soares total fetus Nb2HF8 9w Ho... 40 0.67
       AA927863, AA927863 om18a08.s1 Soares_NFL_T_GBC_S1 Homo sapien... 40 0.67
       AA587486, AA587486 nn84e09.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 40 0.67
       W47466, W47466 zc34h02.rl-Soares senescent-fibroblasts-NbHSF-..-40-0.67
       AA022495, AA022495 ze70e04.s1 Soares fetal heart NbHH19W Homo... 40 0.67
       AA460961, AA460961 zx63b07.s1 Soares total fetus Nb2HF8 9w Ho...
       AA393904, AA393904 zt85e06.rl Soares testis NHT Homo sapiens ... 40 0.67
       AA872272, AA872272 oh72a11.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 40 0.67
       W47341, W47341 zc34h02.s1 Soares senescent fibroblasts NbHSF ...
                                                                  40 0.67
       N72024, N72024-yz96g01,s1-Homo-sapiens-cDNA-clone-290928-3'.
                                                                   -40--0.67-
       N35076, N35076 yy19b08.s1 Homo sapiens cDNA clone 271671 3'.
                                                                   40 0.67
       AA813115, AA813115 aj44d06.s1 Soares testis NHT Homo sapiens ...
       AA826741, AA826741 85f12.s1 NCI CGAP Pr24 Homo sapiens cDNA...
       AA160827, AA160827 zo62e01.s1 Stratagene pancreas (#937208) H... 40 0.67
       AI040354, AI040354 oy33d12.x1 Soares parathyroid tumor NbHPA ...
       AA573297, AA573297 nk98d09.s1 NCI_CGAP Co3 Homo sapiens cDNA ... 40 0.67
       AA416559, AA416559 zu18c03.rl Soares NhHMPu S1 Homo sapiens c... 40 0.67
       AA401079, AA401079 zv66d01.s1 Soares total fetus Nb2HF8 9w Ho... 40 0.67
       AI005204, AI005204 ou60c12.x1 NCI CGAP Br2 Homo sapiens cDNA ... 40 0.67
       N21678, N21678 yx63g01.s1 Soares melanocyte 2NbHM Homo sapien... 40 0.67
  AA824270, AA824270 aj29f01.s1 Soares testis NHT Homo sapiens ... 40 0.67
      AA804907, AA804907 oa89a01.s1 NCI CGAP GCB1 Homo sapiens cDNA 40006767
AA759038, AA759038 ah75h11.s1 Soares testis NHT Homo sapiens ... 40 0.67
 AA628544, AA628544 af27h12.s1 Soares total fetus Nb2HF8 9w Ho... 4000.67
       AA618498, AA618498 np30a11.s1 NCI CGAP Pr22 Homo sapiens cDNA... 40 0.67
        AA503727, AA503727 ne49g02.s1 NCI CGAP Co3 Homo sapiens cDNA ... 40 0.67
        AA514777, AA514777 ni24b01.s1 NCI CGAP Co4 Homo sapiens cDNA ...
        AA040802, AA040802 zf07g05.s1 Soares fetal heart NbHH19W Homo... 40 0.67
        AA770473, AA770473 ah89h06.s1 Soares NFL T GBC S1 Homo sapien...
        AA759377, AA759377 ah54a10.s1 Soares testis NHT Homo sapiens ...
        AA629243, AA629243 zu77e03.s1 Soares testis NHT Homo sapiens ...
        AA262162, AA262162 zs25b12.rl NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.67
        AA161105, AA161105 zo58c05.s1 Stratagene pancreas (#937208) H...
        AA852281, AA852281 NHTBCae11g05r1 Normal Human Trabecular Bon... 38 2.6
        AA948291, AA948291 oq34d02.s1 NCI CGAP GC4 Homo sapiens cDNA ...
        AA416734, AA416734 zu08c01.s1 Soares testis NHT Homo sapiens ...
                                                                    38 2.6
        N98472, N98472 yy65a04.rl Homo sapiens cDNA clone 278382 5'.
                                                                    38 2.6
        AA416815, AA416815 zu08c01.rl Soares testis NHT Homo sapiens ...
                                                                    38 2.6
        AA431486, AA431486 zw72g01.s1 Soares testis NHT Homo sapiens ...
                                                                     38 2.6
        H30248, H30248 yp42a01.s1 Homo sapiens cDNA clone 190056 3'.
                                                                    38 2.6
        R82551, R82551 yi19d06.rl Homo sapiens cDNA clone 149195 5'.
                                                                   38 2.6
```

AA616807, AA616807 vn68c05.rl Barstead mouse irradiated colon... 180 1e-43 AA014223, AA014223 mh20a03.rl Soares mouse placenta 4NbMP13.5... AA014768, AA014768 mi66h04.r1 Soares mouse embryo NbME13.5 14... AA185487, AA185487 mt62c07.r1 Soares 2NbMT Mus musculus cDNA ... 40 0.24 AA103139, AA103139 mo17f05.rl Life Tech mouse embryo 13 5dpc ... 40 0.24 AI048515, AI048515 uh61e08.r1 Soares mouse embryonic stem cel... 40 0.24 AA711859, AA711859 vu59c10.rl Soares mouse mammary gland NbMM... 40 0.24 AA009071, AA009071 mg87b11.r1 Soares mouse embryo NbME13.5 14... 40 0.24 AA276740, AA276740 vc42a12.rl Soares mouse 3NbMS Mus musculus... AA497479, AA497479 vh29b12.rl Soares mouse mammary gland NbMM... 40 0.24 AA038869, AA038869 mi95b10.rl Soares mouse p3NMF19.5 Mus musc... AA790448, AA790448 vw04f09.r1 Soares mouse mammary gland NbMM... AA881111, AA881111 vz06e09.r1 Soares mouse mammary gland NbMM... 40 0.24 AA007762, AA007762 mg76b03.r1 Soares mouse embryo NbME13.5 14... W83172, W83172 mf09a06.rl Soares mouse p3NMF19.5 Mus musculus... AA106439, AA106439 ml59a08.rl Stratagene mouse testis (#93730... 40 0.24 AA000268, AA000268 mg32e09.rl Soares mouse embryo NbME13.5 14... AI047077, AI047077 uh61g06.r1 Soares mouse embryonic stem cel... 40 0.24 AA543280, AA543280 vj80h05.r1 Soares mouse mammary gland NbMM... 40 0.24 AA106301, AA106301 ml81a09.rl Stratagene mouse kidney (#93731... 40 0.24 AA467482, AA467482 ve01a10.rl Soares mouse NbMH Mus musculus ... 540 0.24 AA797372, AA797372 vw27b08.rl Soares mouse mammary gland NbMM... 40 0.24 W77724, W77724 me84h06.r1 Soares mouse embryo NbME13.5 14.5 M... 40 0.24 AA763419, AA763419 vw54a12.rl Soares mouse mammary gland NMLMass 40, 0.24 AA138067, AA138067 mq37c11.rl Barstead MPLRB1 Mus musculus cD.... 40 0.24 AA475425, AA475425 vh20g09.r1 Soares mouse mammary gland NbMM... 40 0.24 AA469884, AA469884 vf71g10.r1 Barstead mouse pooled organs MP... AA016868, AA016868 mh36e12.rl Soares mouse placenta 4NbMP13.5... AA230758, AA230758 my32g10.rl Barstead mouse pooled organs MP... AA833479, AA833479 uc91c03.rl Soares mouse uterus NMPu Mus mu... W61547, W61547 md57a02.r1 Soares mouse embryo NbME13.5 14.5 M... AA033481, AA033481 mi42b07.rl Soares mouse embryo NbME13.5 14... AA068686, AA068686 mm59a03.rl Stratagene mouse embryonic carc... 38 0.94 AA796056, AA796056 vo65d01.rl Soares mouse mammary gland NbMM... C87249, C87249 Mus musculus fertilized egg cDNA 3'-end seque... AA921560, AA921560 vy52c06.r1 Stratagene mouse lung 937302 Mu... W87202, W87202 mf55g08.rl Soares mouse embryo NbME13.5 14.5 M... AA542324, AA542324 vk53e07.r1 Stratagene mouse Tcell 937311 M... AA967316, AA967316 vj47a03.r1 Stratagene mouse skin (#937313)... 36 3.7 W62989, W62989 md88h12.r1 Soares mouse embryo NbME13.5 14.5 M... AA530735, AA530735 vj32g11.r1 Stratagene mouse diaphragm (#93... AA218431, AA218431 my07e05.rl Barstead mouse lung MPLRB2 Mus ... AA591243, AA591243 vm18c04.rl Knowles Solter mouse blastocyst...

マン ツノハリマムリン

AI047609, AI047609 uh63g07.r1 Soares mouse embryonic stem cel... 36 3.7 AA692425, AA692425 vt59b05.rl Barstead mouse irradiated colon... 36 3.7 AA966976, AA966976 ua38f11.r1 Soares mouse mammary gland NbMM... AA856298, AA856298 vw99b01.rl Soares 2NbMT Mus musculus cDNA ... W20935, W20935 mb96c07.rl Soares mouse p3NMF19.5 Mus musculus... 36 3.7 AA230661, AA230661 mw15f08.rl Soares mouse 3NME12 5 Mus muscu... AA111190, AA111190 mp66b11.rl Soares 2NbMT Mus musculus cDNA ... 36 3.7 AA840087, AA840087 uc99h12.rl Soares mouse uterus NMPu Mus mu... AA089210, AA089210 mo05d10.r1 Stratagene mouse lung 937302 Mu... AI035925, AI035925 ub49e05.r1 Soares mouse mammary gland NbMM... AA824205, AA824205 vy20g08.rl Stratagene mouse macrophage (#9... 36 3.7 AA793845, AA793845 vr35e12.r1 Barstead mouse myotubes MPLRB5 ... AA239210, AA239210 mx89e02.rl Soares mouse NML Mus musculus c... 36 3.7 AA711873, AA711873 vu28e06.rl Barstead mouse myotubes MPLRB5 ... AA645119, AA645119 vs72d03.r1 Stratagene mouse skin (#937313)... 36 3.7

AA957268, AA957268 UI-R-E1-fq-e-06-0-UI.s1 UI-R-E1 Rattus nor... 42 0.053 C83463, C83463 Oryctolagus cuniculus corneal endothelial cDN... 38 0.84 AA859448, AA859448 UI-R-A0-bf-b-01-0-UI.s1 UI-R-A0 Rattus nor... AA874930, AA874930 UI-R-E0-ci-b-05-0-UI.s1 UI-R-E0 Rattus nor... 38 0.84 C82607, C82607. Oryctolagus cuniculus corneal endothelial cDN... 38 0.84 AI009631, AI009631 EST204082 Normalized rat lung, Bento Soare... AA801145, AA801145 EST190642 Normalized rat ovary, Bento Soar... 38 0.84 AI012760, AI012760 EST207211 Normalized rat placenta, Bento S... 38 0.84 AA956139, AA956139 UL-R-E1-fi-h-08-0-UL:s1 UI-R-E1 Rattus nor... 38 0.84 AA801144, AA801144 EST190641 Normalized rat ovary, Bento Soar... 38 0.84 AA660819, AA660819 00713 MtRHE Medicago truncatula cDNA 5' 38 0.84 AA859865, AA859865 UI-R-E0-cc-b-04-0-UI.s1 UI-R-E0 Rattus nor... 38 0.84 AI009035, AI009035 EST203486 Normalized rat embryo, Bento Soa... 38 0.84 AA859542, AA859542 UI-R-E0-br-d-03-0-UI.s1 UI-R-E0 Rattus nor... T00613, T00613 wEST01334 Caenorhabditis elegans cDNA clone CE... 38 0.84 H32878, H32878 EST108396 Rat PC-12 cells, untreated Rattus sp... AA125602, AA125602 JM00M011.QM3 Miracidia Sjc 3/96 Schistosom... D45997, RICS10346A Rice cDNA, partial sequence (S10346_1A). 36 3.3 AA943364, AA943364 EST198863 Normalized rat brain, Bento Soar... 36 3.3 C68472, C68472 C.elegans cDNA clone yk305a12: 5' end, singl... 36 3.3 AA785775, AA785775 h4b05a1.fl Aspergillus nidulans 24hr asexu... 36 3.3 D46069, RICS10475A Rice cDNA, partial sequence (S10475_1A). 36 3.3 AA660859, AA660859 00754 MtRHE Medicago truncatula cDNA 5' si... 36 3.3 Z33974, ATTS3035 A. thaliana transcribed sequence; clone PAP... Z32603, ATTS2731 A. thaliana transcribed sequence; clone PAP... AA955567, AA955567 UI-R-E1-fa-a-08-0-UI.s1 UI-R-E1 Rattus nor... AA842765, AA842765 M-EST080 Sugarcane mature stalk Saccharum ... Z32602, ATTS2730 A. thaliana transcribed sequence; clone PAP...

and Marie Carry.

10人。4的联系结合

尼维尔纳莱特 名列尔二

2000年1月20日6月1日

SEQ ID NO:548

U66197, HSU66197 Human fibroblast growth factor homologous fa... 42 0.34
AF020738, AF020738 Mus musculus fibroblast growth factor-rela... 42 0.34
U66201, MMU66201 Mus musculus fibroblast growth factor homolo... 42 0.34
Z46966, MMIMOGN44 M.musculus mRNA for imogen 44. 40 1.3
-AC004301, AC004301 Drosophila-melanogaster DNA-sequence (P1 D... 40 1.3
U86662, LEU86662 Lycopersicon esculentum VPS41 (tVPS41) mRNA,... 40 1.3
U85773, HSU85773 Human phosphomannomutase (PMM2) mRNA, comple... 40 1.3

HUMAN ESTs

W22160, W22160 63A6 Human retina cDNA Tsp509I-cleaved sublibr... 791 0.0 AA860926, AA860926 ak22d06.s1 Soares testis NHT Homo sapiens ... 650 0.0 AA348243, AA348243 EST54707 Hippocampus I Homo sapiens cDNA 5... 513 e-143 AA551799, AA551799 nk04a11.s1 NCI CGAP Co2 Homo sapiens cDNA ... 363 3e-98 AA327309, AA327309 EST30621 Colon I Homo sapiens cDNA 5' end 353 3e-95 AA344913, AA344913 EST50856 Gall-bladder II-Homo sapiens cDNA... 337 2e-90 AA121198, AA121198 zl88g08:r1 Stratagene colon (#937204) Homo 317 2e-84 AA121174, AA121174 zl88g08.s1 Stratagene colon (#937204) Homo317 2e-84 AA001561, AA001561 ze46e07.s1 Soares retina N2b4HR Homo sapie... 42 0.16 AA041240, AA041240 zf07g05.rl Soares fetal heart NbHH19W Homo... AA039536, AA039536 zk39h10.s1 Soares pregnant uterus NbHPU Ho... AA040802, AA040802 zf07g05.s1 Soares fetal heart NbHH19W Homo... 40 0.64 AA573297, AA573297 nk98d09.s1 NCI CGAP Co3 Homo sapiens cDNA ... 40 0.64 N35888, N35888 yy28b05.s1 Homo sapiens cDNA clone 272529 3'. AA888147, AA888147 04h11.s1 NCI CGAP Co10 Homo sapiens cDNA... 40 0.64 AA172158, AA172158 zp29a01.s1 Stratagene neuroepithelium (#93... AA877455, AA877455 ob33g01.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 40 0.64 R02514, R02514 ye70b08.r1 Homo sapiens cDNA clone 123063 5'. 40 0.64 AA514777, AA514777 ni24b01.s1 NCI_CGAP_Co4 Homo sapiens cDNA ... 40 0.64 AA416734, AA416734 zu08c01.s1 Soares testis NHT Homo sapiens ... N98472, N98472 yy65a04.r1 Homo sapiens cDNA clone 278382 5'. AA416815, AA416815 zu08c01.rl Soares testis NHT Homo sapiens ... 38 2.5 AA431486, AA431486 zw72g01.s1 Soares testis NHT Homo sapiens ... 38 2.5 AA948291, AA948291 oq34d02.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... AA852281, AA852281 NHTBCae11g05r1 Normal Human Trabecular Bon... 38 2.5

AA616807, AA616807 vn68c05.r1 Barstead mouse irradiated colon 18 AA469884, AA469884 vf71g10.r1 Barstead mouse pooled organs MP AA230758, AA230758 my32g10.r1 Barstead mouse pooled organs MP	40 0.23
AAU38809, AAU38809 mi95bl0.rl Soares mouse n3NMF10 5 Mus muse	40.000
AA/03419, AA/03419 VW34a12.rl Soares mouse mammary gland NIMI	M 40 000
AA10340/, AA10348/ mtb2c0/.rl Soares 2NhMT Mus musculus cDNIA	40.000
AA100439, AA100439 ml39a08.rl Stratagene mouse testis (#93730	0 0 00
AA276740, AA276740 vc42a12.r1 Soares mouse 3NbMS Mus musculus.	40 0.23
AA068686, AA068686 mm59a03.r1 Stratagene mouse embryonic carc	38 0.91
AA711873, AA711873 vu28e06.r1 Barstead mouse myotubes MPLRB5.	36 3.6
AA856298, AA856298 vw99b01.rl Soares 2NbMT Mus musculus cDNA	36 3.6
W20935, W20935 mb96c07.rl Soares mouse p3NMF19.5 Mus musculus	36 3.6
AA966976, AA966976 ua38f11.r1 Soares mouse mammary gland NbMM AA921560, AA921560 vy52c06.r1 Stratagene mouse lung 937302 Mu	L 36 3.6
AA692425, AA692425 vt59b05.r1 Barstead mouse irradiated colon 30	36 3.6
W87202, W87202 mf55g08.r1 Soares mouse embryo NbME13.5 14.5 M.	5 3.6
AA840087, AA840087 uc99h12.r1 Soares mouse uterus NMPu Mus mu.	36 3.6
Addition, Addition impossion is Source 2NbMT Mile musculus addition	26.26
AA239210, AA239210 mx89e02.rl Soares mouse NMI Mus musculus o	26.26
AA/93843, AA/93843 VI33e12.I Barstead mouse myotubes MPI DB5	26.26
AA043119, AA043119, vs/2d03.r1 Stratagene mouse skin (#037313)	26.26
AA230001, AA230001 mwl5f08.rl Soares mouse 3NMF12.5 Mus muse	2000
AA024203; AA024203; VV20g08.rl Stratagene mouse macrophage (#0	26.26
Co / 249, Co / 249 Mus musculus tertilized egg cDNA 3'-end seque 36	26
AA90/310, AA90/310 VI4/aU3.rl Stratagene mouse skin (#037312)	626
AA391243 AA391243 vm 18c04.rl Knowles Solter mouse blastocyst	26.26
A1033923, A1033923, ub49e03.rl Soares mouse mammary gland NIMMA	26.26
AA330/35, AA330/35 VI32g11.r1 Stratagene mouse diaphragm (#02	26 2 6
AA218431, AA218431 my07e05.r1 Barstead mouse lung MPLRB2 Mus	36 3.6
W62989, W62989 md88h12.r1 Soares mouse embryo NbME13.5 14.5 M.	36 3.6
AA089210, AA089210 mo05d10.r1 Stratagene mouse lung 937302 Mu	36 3.6
AA796056, AA796056 vo65d01.r1 Soares mouse mammary gland NbMN AA542324, AA542324 vk53e07.r1 Stratagene mouse Tcell 937311 M	1 36 3.6
vk55c07.11 Stratagette mouse 1 cell 93/311 M	36 3.6
AA957268, AA957268 UI-R-E1-fq-e-06-0-UI.s1 UI-R-E1 Rattus nor	42.0.052
100613 100613 31/EST01224 Company 1 11/1 1	42 0.052
AA660819, AA660819 00713 MtRHE Medicago truncatula cDNA 5'	38 0.81 38 0.81
AA956139, AA956139 UI-R-E1-fi-h-08-0-UI.s1 UI-R-E1 Rattus por	38 0.81
D46069, RICS10475A Rice cDNA, partial sequence (\$10475, 1A)	< 2.2
AA842765, AA842765 M-EST080 Sugarcane mature stalk Saccharum	26.22
AA955567, AA955567 UI-R-E1-fa-a-08-0-UI-s1 III-R-E1 Rattus por	50 5,2
/33974 ATTS3035 A thaliang transported	36 3.2
Handle Handle Handle Handle Sequence; clone PAP 36 3	. ว
Z33974, ATTS3035 A. thaliana transcribed sequence; clone PAP 36 3 H32878, H32878 EST108396 Rat PC-12 cells, untreated Rattus sp 36	3.2
H32878, H32878 EST108396 Rat PC-12 cells, untreated Rattus sp 36 AA660859, AA660859 00754 MtRHE Medicago truncatula cDNA 5' si	3.2

D45997, RICS10346A Rice cDNA, partial sequence (S10346_1A). 36 3.2
Z32603, ATTS2731 A. thaliana transcribed sequence; clone PAP... 36 3.2
AA785775, AA785775 h4b05a1.fl Aspergillus nidulans 24hr asexu... 36 3.2
C68472, C68472 C.elegans cDNA clone yk305a12:5' end, singl... 36 3.2
AA125602, AA125602 JM00M011.QM3 Miracidia Sjc 3/96 Schistosom... 36 3.2
AA943364, AA943364 EST198863 Normalized rat brain, Bento Soar... 36 3.2
Z32602, ATTS2730 A. thaliana transcribed sequence; clone PAP... 36 3.2

SEQ ID NO:549-

U79271, HSU79271 Human clones 23920 and 23921 mRNA sequence AC000395, AC000395 Genomic sequence from Human 9q34, complete... 42 0.28 AC004636, AC004636 Homo sapiens chromosome 5, P1 clone 1268h6... 42 0.28 M94579, HUMCEL Human carboxyl ester lipase (CEL) gene, comple... 42 0.28 AC002097, AC002097 Homo sapiens chromosome 9q34, clone 246H5,... 42 0.28 AB006709, AB006709 Vibrio alginolyticus rpoN gene for RNA po... 42 0.28 Z47074, CEK07C10 Caenorhabditis elegans cosmid K07C10, compl... 40 1.1 AC004755, AC004755 Homo sapiens chromosome 19, fosmid 37502, 40 1.1 Z28051, SCYKL051W S.cerevisiae chromosome XI reading frame Onto 40 1.1 and the second Z28050, SCYKL050C S.cerevisiae chromosome XI reading frame O... 40 1.1 X75781, SCXI286K S.cerevisiae chromosome XI (28.6 kb) DNA fo... 40 1.1 Y16899, DMY16899 Drosophila melanogaster mRNA for optomotor-... 38 4.3 M87854, RATBARK1 Rattus norvegicus beta-adrenergic receptor k... 38 4.3 M74822, RATMHTLL Rat MHC class I TL-like protein gene, comple... 38 4.3 M80776, HUMBARK1A Human beta-adrenergic receptor kinase 1 mRN... 38 4.3 D84549, YSACA Candida tropicalis DNA for carnitine acetyltra... 38 4.3 L23127, RATRMCI Rattus norvegicus germline MHC class I gene, ... 38 4.3 AC004257, AC004257 Homo sapiens chromosome 19, cosmid R33209,... 38 4.3 U70850, CELF28F9 Caenorhabditis elegans cosmid F28F9 38 4.3 U88309, CELT23B3 Caenorhabditis elegans cosmid T23B3 38 4.3 X53421, DVCHOS18 D. virilis s18, s15, s19, s16 chorion prote... D89245, D89245 Schizosaccharomyces pombe mRNA, partial cds, ... 38 4.3 AF009623, AF009623 Parascaris univalens PUMA1 (puma1) mRNA, c... 38 4.3 S48813, S48813 beta-adrenergic receptor kinase [rats, brain, ... 38 4.3 Z67883, CEK02A4 Caenorhabditis elegans cosmid K02A4, complet... 38 4.3 U90567, GGU90567 Gallus gallus glutamine rich protein mRNA, p... 38 4.3 M98498, BOVEZRINA Bos taurus ezrin mRNA, complete cds. M34073, MUSMHT10C Mus musculus (clone T10-c) MHC class I cell... 38 4.3

S81843, S81843 beta-adrenergic receptor kinase 1 [Syrian hams... 38 4.3 X61157, HSBARK H.sapiens mRNA for beta-adrenergic receptor k... 38 4.3 U08438, HSNBARKS4 Human beta-adrenergic receptor kinase (ADRB... 38 4.3 U39674, CELC06E2 Caenorhabditis elegans cosmid C06E2. 38 4.3

HUMAN ESTs

W29097, W29097 56d11 Human retina cDNA randomly primed sublib... 1045 0.0 AA886109, AA886109 ny44f05.s1 NCI_CGAP Pr12 Homo sapiens cDNA... 656 0.0 AA829894, AA829894 oe51e12.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 650 0.0 AA879456, AA879456 oj91g03.s1 Soares_NFL T GBC S1 Homo sapien... 650 0.0 AA029201, AA029201 zk12f08.s1 Soares pregnant uterus NbHPU Ho... 650 0.0 AA102109, AA102109 zk87g11.s1 Soares pregnant uterus NbHPU Ho... 650 0.0 AA843811, AA843811 ak09c08.s1 Soares parathyroid tumor NbHPA ... 650 0.0 W72147, W72147 zd70f08.s1 Soares fetal heart NbHH19W Homo sap... 650 0.0 N51485, N51485 yz04e06.s1 Homo sapiens cDNA clone 282082 3'. 650 0.0 AI033069, AI033069 ow93f02.s1 Soares_fetal_liver_spleen_1NFLS... 642 0.0 AA161465, AA161465 zo73a06.s1 Stratagene pancreas (#937208) H... 638 0.0 N51277, N51277 yz14d07.s1 Homo sapiens cDNA clone 283021.3'. 636 e-180 N64528, N64528 yz91e06.s1 Homo sapiens cDNA clone 290434 3'. 636 e-180 H99906, H99906 yx32h10.s1 Homo sapiens cDNA clone 263491 3'. 636 e-180 AA812519, AA812519 ai79b03.s1 Soares testis NHT Homo sapiens ... 636 e-180 R71679, R71679 yj85e08.s1 Homo sapiens cDNA clone 155558 3'. 628 e-178 AA744290, AA744290 ny51d02.s1 NCI CGAP_Pr18 Homo sapiens cDNA... 626 e-177 AI038590, AI038590 ox34e03.s1 Soares total fetus Nb2HF8 9w Ho... 624 e-177 AA099913, AA099913 zk87g11.r1 Soares pregnant uterus NbHPU Ho... 624 e-177 AA083859, AA083859 zn16d06.s1 Stratagene neuroepithelium NT2R... 622 e-176 AA883684, AA883684 al58a05.s1 Soares NFL T GBC S1 Homo sapien... 613 e-173 R39448, R39448 yc95d03.s1 Homo sapiens cDNA clone 23921 3'. 593 e-167 R36854, R36854 yf52c07.s1 Homo sapiens cDNA clone 25899 3'. 591 e-167 H98684, H98684 yx17g01.s1 Homo sapiens cDNA clone 262032 3'. 585 e-165 R07471, R07471 ye97a06.s1 Homo sapiens cDNA clone 125650 3'. 581 e-164 AA910762, AA910762 ol25h06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 559 e-157 AA083954, AA083954 zn17d06.s1 Stratagene neuroepithelium NT2R... 555 e-156 AA346369, AA346369 EST52776 Fetal heart II Homo sapiens cDNA ... 545 e-153 R54092, R54092 yg98d07.s1 Homo sapiens cDNA clone 41818 3'. 539 e-151 H09074, H09074 yl97a06.s1 Homo sapiens cDNA clone 46164 3'. 535 e-150 N21975, N21975 yw30c10.s1 Homo sapiens cDNA clone 253746 3'. 533 e-149 D59844, HUM070E11A Human fetal brain cDNA 3'-end GEN-070E11. 466 e-129 H11525, H11525 ym15h07.s1 Homo sapiens cDNA clone 48232 3'. 442 e-122 AA971254, AA971254 op73c08.s1 Soares_NFL_T_GBC_S1 Homo sapien... 442 e-122 W77907, W77907 zd70f08.r1 Soares fetal heart NbHH19W Homo sap... 428 e-118 AA878973, AA878973 oj26d11.s1 NCI_CGAP_Kid3 Homo sapiens cDNA... 389 e-106 AA715235, AA715235 nv10g01.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 357 2e-96

AA328928, AA328928 EST32475 Embryo, 12 week I Homo sapiens cD... 355 7e-96 AA860455, AA860455 aj80f02.s1 Soares parathyroid tumor NbHPA ... 283 2e-74 AA026096, AA026096 ze97a04.rl Soares fetal heart NbHH19W Homo... 268 1e-69 AA026516, AA026516 ze97a04.s1 Soares fetal heart NbHH19W Homo... 172 6e-41 T26899, T26899 ESTDIR509 Homo sapiens cDNA clone CDDIR509 3'. 170 2e-40 N71178, N71178 yw30c10.rl Homo sapiens cDNA clone 253746 5'. AA372290, AA372290 EST84170 Raji cells, cyclohexamide treated... 98 3e-18 AI038890, AI038890 ox84g12.x1 Soares_senescent_fibroblasts_Nb... D81647, HUM180D08B Human fetal brain cDNA 5'-end GEN-180D08. 38 2.1 AA452630, AA452630 zx33f08.rl Soares total fetus Nb2HF8 9w Ho... AA682624, AA682624 zi19g01.s1 Soares fetal liver spleen 1NFLS... AA742364, AA742364 ny89c12.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 38 2.1 AA907234, AA907234 ol03h08.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 38 2.1 T09391, T09391 EST07284 Homo sapiens cDNA clone HIBBT71 5' en... AA161236, AA161236 zo59h07.s1 Stratagene pancreas (#937208) H... 38 2.1 AA252941, AA252941 zr50g09.r1 Soares NhHMPu S1 Homo sapiens c... AA252245, AA252245 zr64g07.s1 Soares NhHMPu S1 Homo sapiens c... 38 2.1 AA780678, AA780678 ac70h01.s1 Stratagene fetal retina 937202 ... 38 2.1 W05501, W05501 za84a12.rl Soares fetal lung NbHL19W Homo sapi... 38 2.1 AI039908, AI039908 ox25f07.x1 Soares_total_fetus_Nb2HF8_9w Ho... AA280664, AA280664 zs99f09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 38 2.1 AA973566, AA973566 oo46f09.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 38 2.1 LANGER OF THE . N27253, N27253 yx17g01.rl Homo sapiens cDNA clone 262032 5'. 38 2.1 AA995707, AA995707 os29c09.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 38 2.1 AI016407, AI016407 ot72e09.s1 Soares_total_fetus_Nb2HF8_9w Ho... 38 2.1 三百万万万万万万万万 N70619, N70619, za84a12.s1 Homo sapiens cDNA clone 299230 3'. 38 2.1 ं विभावस्थिति व्यक्तिक AA242923, AA242923 zr64g07.r1 Soares NhHMPu S1 Homo sapiens c... 38 2.1 AA938631, AA938631 0096f07.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 38 2.1 AA985290, AA985290 am74g03.s1 Stratagene schizo brain S11 Hom... 38 2.1

AA690806, AA690806 vt25h10.rl Barstead mouse myotubes MPLRB5 ... 377 e-103 AA155014, AA155014 mr99h05.rl Stratagene mouse embryonic carc... 180 8e-44 AA269966, AA269966 va57d06.rl Soares mouse 3NME12 5 Mus muscu... 172 2e-41 AA089195, AA089195 mo05h11.rl Stratagene mouse lung 937302 Mu... 163 2e-38 AA466212, AA466212 vg86g02.rl Barstead mouse pooled organs MP... 68 8e-10 AA423476, AA423476 ve76d07.rl Soares mouse mammary gland NbMM... 60 2e-07 AA597213, AA597213 vo28a05.rl Barstead mouse irradiated colon... 40 0.19 AA396266, AA396266 vb45c01.rl Soares mouse lymph node NbMLN M... 40 0.19 AA967806, AA967806 uh05d06.rl Soares mouse hypothalamus NMHy ... 38 0.75 AA591111, AA591111 vm12c06.rl Knowles Solter mouse blastocyst... 38 0.75 W65797, W65797 me14g02.rl Soares mouse embryo NbME13.5 14.5 M... 38 0.75 AA153891, AA153891 mq56e05.rl Soares 2NbMT Mus musculus cDNA ... 38 0.75

AI019772, AI019772 ua90h02.rl Soares mouse mammary gland NbMM 36 3.0
AA4/2253, AA4/2253 vh10g05.rl Soares mouse mammary gland NhMM 26, 20
AA230895, AA230895 mw14g07.rl Soares mouse 3NMF12 5 Mus musqu 26 2 0
W18052, W18052 mb83g03.r1 Soares mouse p3NMF19.5 Mus musculus 36 3.0
AA797681, AA797681 vx66c12.r1 Stratagene mouse skin (#937313) 36 3.0
W66734, W66734 me26g05.r1 Soares mouse embryo NbME13.5 14.5 M 36 3.0
$\Delta \Delta V \Delta V (1/1) / \Delta \Delta V (\Delta V (1/1)) / \Delta V (\Delta V$
ΔΛΛ516ΛΛ ΛΛΛ516ΛΛ το 155-110 τ.1 σ
AA162797, AA162797 mr29g09.rl Soares mouse 3NbMS Mus musculus 36 3.0
AA549644, AA549644 vk80f08.s1 Knowles Solter mouse 2 cell Mus 36 3.0
AA273295, AA273295 vc01e01.rl Soares mouse lymph node NbMLN M 36 3.0
AA098207, AA098207 mn83d01.r1 Stratagene mouse Tcell 937311 M 36 3.0
A A 027381 A A 027381 mi05c06 r1 Sparse manage 1 cell 93/311 M 36 3.0
AA027381, AA027381 mi05c06.r1 Soares mouse placenta 4NbMP13.5 36 3.0
AA544474, AA544474 vk33h06.r1 Soares mouse mammary gland NbMM 36 3.0
AA416466, AA416466 vd15c09.s1 Knowles Solter mouse 2 cell Mus 36 3.0
AA285999, AA285999 vb88h08.r1 Soares mouse 3NbMS Mus museulus 36 3.0
AA175025, AA175025 ms85f06.r1 Soares mouse 3NbMS Mus musculus 36 3.0
AA544386, AA544386 vk33f06.r1 Soares mouse mammary gland NbMM 36 3.0
AA175557, AA175557 ms96g04.r1 Soares mouse 3NbMS Mus musculus 36 3.0
AA711924, AA711924 vu59f09.rl Soares mouse mammary gland NbMM 36 3.0
AA734052, AA734052 vv22c10.r1 Stratagene mouse heart (#937316.a-36-3.0
W53738, W53738 md12a12.r1 Soares mouse embryo NbME13.5 14.5 M. 36 3.0
AA611837, AA611837 vo82a06.r1 Barstead mouse myotubes MPLRB5 36 3.0
AA0/9001, AA0/9001 VVY0IU0.T1 Soares mouse mammary aland NIMAX 100 200 200
AAZ88625, AAZ88625, vb23g09.rl Soares mouse 3NbMS Mus musculus. 36-3.0s common and sold and s

AA784124, AA784124 d2b06a1.fl Aspergillus nidulans 24hr asexu... AI044911, AI044911 UI-R-C1-kk-e-05-0-UI.s1 UI-R-C1 Rattus nor... 36 2.6 AA550452, AA550452 1605m3 gmbPfHB3.1, G. Roman Reddy Plasmodi... 36 2.6 F20017, ATTS6056 A. thaliana transcribed sequence; clone TAP... 36 2.6 AA786697, AA786697 k5d01a1.fl Aspergillus nidulans 24hr asexu... 36 2.6 AA433457, AA433457 SW3ICA2345SK Brugia malayi infective larva... 36 2.6

SEQ ID NO:550

ママ ひ クフ/ひせんひご

U66201, MMU66201 Mus musculus fibroblast growth factor homolo... 42 0.20 AF020738, AF020738 Mus musculus fibroblast growth factor-rela... 42 0.20 U66197, HSU66197 Human fibroblast growth factor homologous fa... 42 0.20 Z46966, MMIMOGN44 M.musculus mRNA for imogen 44. 40 0.80

AC004301, AC004301 Drosophila melanogaster DNA sequence (P1 D... 40 0.80 U86662, LEU86662 Lycopersicon esculentum VPS41 (tVPS41) mRNA,... 40 0.80 Y14330, HSY14330 Homo sapiens partial mRNA for jagged2 protein 38 3.2 AF003521, AF003521 Homo sapiens Jagged 2 mRNA, complete cds 38 3.2 AF029778, AF029778 Homo sapiens Jagged2 (JAG2) mRNA, complete... 38-3.2 AF020201, AF020201 Homo sapiens Jagged 2 mRNA, complete cds 38 3.2 Z71523, SCYNL247W S.cerevisiae chromosome XIV reading frame ... 38 3.2 AF029779, AF029779 Homo sapiens hJAG2.del-E6 (JAG2) mRNA, alt... 38 3.2 U70049, RNU70049 Rattus norvegicus jagged2 precursor gene, pa... 38 3.2 X96722, SCCHXIVL S.cerevisiae DNA region from chromosome XIV... 38 3.2 AF005938, AF005938 Cavia porcellus L-type voltage-dependent c... 38 3.2 X78972, SBSTRBF S.bluensis ISP 5564 genes strB and strF 38 3.2 38 3.2 X94912, HSPR22 H.sapiens Pr22 gene

HUMAN ESTs

AA860926, AA860926 ak22d06.s1 Soares testis NHT Homo sapiens ... 650 0.0 AA348243, AA348243 EST54707 Hippocampus I Homo sapiens cDNA 5... 513 e-144 AA551799, AA551799 nk04a11.s1 NCI CGAP Co2 Homo sapiens cDNA ... 363 2e-98 AA327309, AA327309 EST30621 Colon I Homo sapiens cDNA 5' end 353 2e-95 AA344913, AA344913 EST50856 Gall bladder II Homo sapiens cDNA... 337 1e-90 AA121174, AA121174 zl88g08.s1 Stratagene colon (#937204) Homo... 317 1e-84 AA121198, AA121198 zl88g08.r1 Stratagene colon (#937204) Homo... 317 1e-84 & AI005204, AI005204 ou60c12.x1 NCI_CGAP_Br2 Homo sapiens cDNA ... 40 0:39 AA757360, AA757360 ah98a01.s1 Soares NFL T GBC S1 Homo sapien... 40 0.39 AI005324, AI005324 ou13h07.x1 Soares NFL T GBC S1 Homo sapien... 40 0.39 AA416559, AA416559 zu18c03.r1 Soares NhHMPu S1 Homo sapiens c... 40 0.39 AA262162, AA262162 zs25b12.rl NCI_CGAP_GCB1 Homo sapiens cDNA... AA824270, AA824270 aj29f01.s1 Soares testis NHT Homo sapiens ... 40 0.39 AA826741, AA826741 85f12.s1 NCI CGAP Pr24 Homo sapiens cDNA... 40 0.39 AA813115, AA813115 aj44d06.s1 Soares testis NHT Homo sapiens ... 40 0.39 AA403143, AA403143 zv66d01.rl Soares total fetus Nb2HF8 9w Ho... 40 0.39 AA725024, AA725024 ah97h10.s1 Soares NFL T GBC S1 Homo sapien... 40 0.39 AA804907, AA804907 oa89a01.sl NCI CGAP GCB1 Homo sapiens cDNA... 40 0.39 AA628544, AA628544 af27h12.s1 Soares total fetus Nb2HF8 9w Ho... 40 0.39 AA618498, AA618498 np30a11.s1 NCI CGAP Pr22 Homo sapiens cDNA... 40 0.39 AA503727, AA503727 ne49g02.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 40 0.39 AA460961, AA460961 zx63b07.s1 Soares total fetus Nb2HF8 9w Ho... 40 0.39 AA770473, AA770473 ah89h06.s1 Soares NFL T GBC S1 Homo sapien... 40 0.39 AA759377, AA759377 ah54a10.s1 Soares testis NHT Homo sapiens ... AA629243, AA629243 zu77e03.s1 Soares testis NHT Homo sapiens ... AA903406, AA903406 ok62c11.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 40 0.39 AA215903, AA215903 hp0042.seq.F Fetal heart, Lambda ZAP Expre... 40 0.39

· 外面特別的

AA160827, AA160827 zo62e01.s1 Stratagene pancreas (#937208) H... 40 0.39 AA577174, AA577174 nm86e11.s1 NCI_CGAP Co9 Homo sapiens cDNA ... 40 0.39 AA969632, AA969632 op38h05.s1 Soares_NFL T GBC S1 Homo sapien... 40 0.39 N72025, N72025 yz96g02.s1 Homo sapiens cDNA clone 290930 3'. AA974988, AA974988 on59b06.s1 Soares NFL T GBC S1 Homo sapien... 40 0.39 W32428, W32428 zc05c12.s1 Soares parathyroid tumor NbHPA Homo... 40 0.39 N21678, N21678 yx63g01.s1 Soares melanocyte 2NbHM Homo sapien... 40 0.39 AA860208, AA860208 ak48c10.s1 Soares testis NHT Homo sapiens ... 40 0.39 AA814296, AA814296 nz07d08.s1 NCI_CGAP GCB1 Homo sapiens cDNA... 40 0.39 AA806381, AA806381 oc22g05.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... AA435587, AA435587 zt85d07.s1 Soares testis NHT Homo sapiens ... 40 0.39 W45005, W45005 zc05c12.rl Soares parathyroid tumor NbHPA Homo... 40 0.39 AA393904, AA393904 zt85e06.rl Soares testis NHT Homo sapiens ... AA759038, AA759038 ah75h11.s1 Soares testis NHT Homo sapiens ... 40 0.39 AA927863, AA927863 om18a08.s1 Soares NFL_T_GBC_S1 Homo sapien... 40 0.39 AA461270, AA461270 zx63b07.r1 Soares total fetus Nb2HF8 9w Ho... 40 0.39 AA417295, AA417295 zu18c03.s1 Soares NhHMPu S1 Homo sapiens c... 40 0.39 W47466, W47466 zc34h02.rl Soares senescent fibroblasts NbHSF ... 40 0.39 AA262229, AA262229 zs25b12.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.39 AA587486, AA587486 nn84e09.s1 NCI CGAP Br2 Homo sapiens cDNA ... 40 0.39 AA401079, AA401079 zv66d01.s1 Soares total fetus Nb2HF8 9w Ho... 40 0.39 AA872272, AA872272 oh72a11.s1 NCI_CGAP Kid5 Homo sapiens cDNA... 40 0.39 W47341, W47341 zc34h02:s1 Soares senescent fibroblasts NbHSF ... 40 0.39 N72024, N72024 yz96g01.s1 Homo sapiens cDNA clone 290928 3'. 40 0.39 N35076, N35076 yy19b08.s1 Homo sapiens cDNA clone 271671 3'. 40 0.39 AI040354, AI040354 6y33d12.x1 Soares_parathyroid_tumor_NbHPA ... 40 0.39 AA946650, AA946650 oq38h09.s1 NCI CGAP Kid5 Homo sapiens cDNA... AA022495, AA022495 ze70e04.s1 Soares fetal heart NbHH19W Homo... 40 0.39 AA873216, AA873216 oh70f04.s1 NCI CGAP Kid5 Homo sapiens cDNA... 40 0.39 R82551, R82551 yj19d06.rl Homo sapiens cDNA clone 149195 5'. 38 1.5 H30248, H30248 yp42a01.s1 Homo sapiens cDNA clone 190056 3'. 38 1.5 AA161105, AA161105 zo58c05.s1 Stratagene pancreas (#937208) H... 38 1.5 AA948291, AA948291 oq34d02.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... AA416734, AA416734 zu08c01.s1 Soares testis NHT Homo sapiens ... 38 1.5 AA431486, AA431486 zw72g01.s1 Soares testis NHT Homo sapiens ... 38 1.5 AA416815, AA416815 zu08c01.rl Soares testis NHT Homo sapiens ... 38 1.5

AA616807, AA616807 vn68c05.r1 Barstead mouse irradiated colon... 180 6e-44
AA467482, AA467482 ve01a10.r1 Soares mouse NbMH Mus musculus ... 40 0.14
AA543280, AA543280 vj80h05.r1 Soares mouse mammary gland NbMM... 40 0.14
AA009071, AA009071 mg87b11.r1 Soares mouse embryo NbME13.5 14... 40 0.14
AA106439, AA106439 ml59a08.r1 Stratagene mouse testis (#93730... 40 0.14

es MARRO

2、经验额关系。

The state of the s

AA014768, AA014768 mi66h04.r1 Soares mouse embryo NbME13.5 14 40 0.14	
AA001111, AA001111 VZU0eU9.11 Soares mouse mammary gland NhMM 40.014	
AA049011, AA049011 mi48c09.rl Soares mouse embryo NbMF13 5 14 40 0 14	
AA18548/, AA18548/ mt62c07.rl Soares 2NhMT Mus musculus aDNA 40.014	
AA 703419, AA 703419 VW 34212.11 Soares mouse mammary gland NMI M 40, 014	
AA016868, AA016868 mh36e12.r1 Soares mouse placenta 4NbMP13.5 40 0.14	
AA711850 AA711850 50 10 1 50 10 1 50 10 10 10 10 10 10 10 10 10 10 10 10 10	
AA469884, AA469884 vf71g10.r1 Barstead mouse pooled organs MP 40 0.14	
AA230758, AA230758 my32g10.r1 Barstead mouse pooled organs MP 40 0.14	
AA497479, AA497479 vh29b12.r1 Soares mouse mammary gland NbMM 40 0.14	
AA138067, AA138067 mq37c11.rl Barstead MPLRB1 Mus musculus cD 40 0.14	
AA103139, AA103139 mo17f05.r1 Life Tech mouse embryo 13 5dpc 40 0.14	
AI047077, AI047077 uh61g06.r1 Soares mouse embryonic stem cel 40 0.14	
AI048515, AI048515 uh61e08.r1 Soares mouse embryonic stem cel 40 0.14	
W61547, W61547 md57a02.r1 Soares mouse embryo NbME13.5 14.5 M 40 0.14	
AA007762, AA007762 mg76b03.r1 Soares mouse embryo NbME13.5 14 40 0.14	
AA000268, AA000268 mg32e09.rl Soares mouse embryo NbME13.5 14 40 0.14	
AA475425, AA475425 vh20g09.r1 Soares mouse mammary gland NbMM 40 0.14	
AA014223, AA014223 mh20a03.rl Soares mouse placenta 4NbMP13.5 40 0.14	
AA797372, AA797372 vw27b08.rl Soares mouse mammary gland NbMM 40 0.14	
AA106301, AA106301 ml81a09.r1 Stratagene mouse kidney (#93731 40.0.14	
AAUJJ401. AAUJJ4XI MI4/bil/tl Noareg moving ombowing NI NI Fill 2 to 14	
W77724, W77724 me84h06.r1 Soares mouse embryo NbME13.514.5 M40 0.14	Sec.
AA038869, AA038869 mi95b10.r1 Soares mouse p3NMF19.5 Mus musculus 40 0.14	.7.3
AA068686, AA068686 mm59a03.rl Stratagene mouse embryonic carc 38 0.55	
AA111190, AA111190 mp66b11.rl Soares 2NbMT Mus musculus cDNA 36 2.2	
AA840087, AA840087 uc99h12.r1 Soares mouse uterus NMPu Mus mu 36 2.2	
AA239210, AA239210 mx89e02.rl Soares mouse NML Mus musculus c 36 2.2	
AA824205, AA824205 vy20g08.r1 Stratagene mouse macrophage (#9 36 2.2	
C87249, C87249 Mus musculus fertilized egg cDNA 3'-end seque 36 2.2	
AA089210, AA089210 mo05d10.r1 Stratagene mouse lung 937302 Mu 36 2.2	
AA711873, AA711873 vu28e06.r1 Barstead mouse myotubes MPLRB5 36 2.2	
AA793845, AA793845 vr35e12.r1 Barstead mouse myotubes MPLRB5 36 2.2	
AA645119, AA645119 vs72d03.r1 Stratagene mouse skin (#937313) 36 2.2	
AA967316, AA967316 vj47a03.r1 Stratagene mouse skin (#937313) 36 2.2	
W87202, W87202 mf55g08.r1 Soares mouse embryo NbME13.5 14.5 M 36 2.2	
AA218431, AA218431 my07e05.r1 Barstead mouse lung MPLRB2 Mus 36 2.2	
AA796056, AA796056 vo65d01.r1 Soares mouse mammary gland NbMM 36 2.2	
AAAA0/AAAA530735 xii22xi11 m1 Streets mann 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
AI047609, AI047609 uh63g07.r1 Soares mouse embryonic stem cel 36 2.2	
AA591243, AA591243, vm18c04 r1 Knowled Selfer was 11 to 36 2.2	
AA591243, AA591243 vm18c04.r1 Knowles Solter mouse blastocyst 36 2.2	

AA836298 VW99601.rl Soares 2NbMT Mus musculus	cDNA	36 22
AA966976, AA966976 ua38f11.r1 Soares mouse mammary gland I	NbMM	36 2 2
, 5		JU 2.2

AA957268, AA957268 UI-R-E1-fq-e-06-0-UI.s1 UI-R-E1 Rattus nor... 42 0.031 AA801145, AA801145 EST190642 Normalized rat ovary, Bento Soar... 38 0.48 AI012760, AI012760 EST207211 Normalized rat placenta, Bento S... 38 0.48 AA874930, AA874930 UI-R-E0-ci-b-05-0-UI.s1 UI-R-E0 Rattus nor... C82607, C82607 Oryctolagus cuniculus corneal endothelial cDN... 38 0.48 AA859865, AA859865 UI-R-E0-cc-b-04-0-UI.s1 UI-R-E0 Rattus nor... 38 0.48 C83463, C83463 Oryctolagus cuniculus corneal endothelial cDN... 38 0.48 AA801144, AA801144 EST190641 Normalized rat ovary, Bento Soar... 38 0.48 AA859448, AA859448 UI-R-A0-bf-b-01-0-UI.s1 UI-R-A0 Rattus nor... AI009631, AI009631 EST204082 Normalized rat lung, Bento Soare... 38 0.48 AI009035, AI009035 EST203486 Normalized rat embryo, Bento Soa... 38 0.48 AA859542, AA859542 UI-R-E0-br-d-03-0-UI.s1 UI-R-E0 Rattus nor... H32878, H32878 EST108396 Rat PC-12 cells, untreated Rattus sp... 36-1.9-AA943364, AA943364 EST198863 Normalized rat brain, Bento Soar... 36-1.9 Z32602, ATTS2730 A. thaliana transcribed sequence; clone PAP... Z33974, ATTS3035 A. thaliana transcribed sequence; clone PAP... Z32603, ATTS2731 A. thaliana transcribed sequence; clone PAP... 36 1.9 AA660859, AA660859 00754 MtRHE Medicago truncatula cDNA 5 si... 36 1.9 AA842765, AA842765 M-EST080 Sugarcane mature stalk Saccharum ... 36 1.9 AA125602, AA125602 JM00M011 QM3 Miracidia Sjc 3/96 Schistosom... 36 1.9 AA785775, AA785775 h4b05a1.fl Aspergillus nidulans 24hr asexu. 36 1.9 e delineaniscritti, yaka a a ...

SEQ ID NO:551

U66201, MMU66201 Mus musculus fibroblast growth factor homolo... 42 0.36 AF020738, AF020738 Mus musculus fibroblast growth factor-rela... 42 0.36 U66197, HSU66197 Human fibroblast growth factor homologous fa... 42 0.36 U86662, LEU86662 Lycopersicon esculentum VPS41 (tVPS41) mRNA,... 40 1.4 U85773, HSU85773 Human phosphomannomutase (PMM2) mRNA, comple... 40 1.4 Z46966, MMIMOGN44 M.musculus mRNA for imogen 44. 40 1.4 AC004301, AC004301 Drosophila melanogaster DNA sequence (P1 D... 40 1.4

HUMAN ESTs

W22160, W22160 63A6 Human retina cDNA Tsp509I-cleaved sublibr... 791 0.0 AA860926, AA860926 ak22d06.s1 Soares testis NHT Homo sapiens ... 650 0.0

AA348243, AA348243 EST54707 Hippocampus I Homo sapiens cDNA 5... 513 e-143 AA551799, AA551799 nk04a11.s1 NCI_CGAP_Co2 Homo sapiens cDNA ... 363 4e-98 AA327309, AA327309 EST30621 Colon I Homo sapiens cDNA 5' end 353 4e-95 AA344913, AA344913 EST50856 Gall bladder II Homo sapiens cDNA... 337 2e-90 AA121174, AA121174 zl88g08.s1 Stratagene colon (#937204) Homo... 317 2e-84 AA121198, AA121198 zl88g08.r1 Stratagene colon (#937204) Homo... 317 2e-84 AA001561, AA001561 ze46e07.s1 Soares retina N2b4HR Homo sapie... 42 0.17 AA877455, AA877455 ob33g01.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 40 0.68 N35888, N35888 yy28b05.s1 Homo sapiens cDNA clone 272529 3'. 40 0.68 AA040802, AA040802 zf07g05.s1 Soares fetal heart NbHH19W Homo... 40 0.68 AA573297, AA573297 nk98d09.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 40 0.68 AA041240, AA041240 zf07g05.rl Soares fetal heart NbHH19W Homo... 40 0.68 AA514777, AA514777 ni24b01.s1 NCI_CGAP_Co4 Homo sapiens cDNA ... 40 0.68 R02514, R02514 ye70b08.rl Homo sapiens cDNA clone 123063 5'. AA039536, AA039536 zk39h10.s1 Soares pregnant uterus NbHPU Ho... 40 0.68 AA888147, AA888147 04h11.s1 NCI_CGAP_Co10 Homo sapiens cDNA... 40 0.68 AA172158, AA172158 zp29a01.s1 Stratagene neuroepithelium (#93... 40 0.68 AA416734, AA416734 zu08c01.s1 Soares testis NHT Homo sapiens ... 38 2.7 N98472, N98472 yy65a04.rl Homo sapiens cDNA clone 278382 5'. AA416815, AA416815 zu08c01.rl Soares testis NHT Homo sapiens ... 38 2.7 AA852281, AA852281 NHTBCae11g05r1 Normal Human Trabecular Bon... 38 2.7 AA948291, AA948291 oq34d02.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... R14449, R14449 yf81h09.r1 Homo sapiens cDNA clone 29034 5 38 2.7 AA431486, AA431486 zw72g01.sl Soares testis NHT Homo sapiens ... 38 2.7 Karangara. 。 医二甲磺胺磺胺磺胺异合物 State garage

1944、李治科籍经济支撑。11、201、2014、11

AA616807, AA616807 vn68c05.rl Barstead mouse irradiated colon... 180 1e-43 AA469884, AA469884 vf71g10.r1 Barstead mouse pooled organs MP... 40 0.24 AA038869, AA038869 mi95b10.rl Soares mouse p3NMF19.5 Mus musc... 40 0.24 AA185487, AA185487 mt62c07.r1 Soares 2NbMT Mus musculus cDNA ... 40 0.24 AA230758, AA230758 my32g10.r1 Barstead mouse pooled organs MP... 40 0.24 AA276740, AA276740 vc42a12.rl Soares mouse 3NbMS Mus musculus... 40 0.24 AA763419, AA763419 vw54a12.rl Soares mouse mammary gland NMLM... AA106439, AA106439 ml59a08.rl Stratagene mouse testis (#93730... 40 0.24 AA250010, AA250010 mz59b12.rl Soares mouse lymph node NbMLN M... AA068686, AA068686 mm59a03.rl Stratagene mouse embryonic carc... 38 0.97 AA139459, AA139459 mq86a03.r1 Stratagene mouse melanoma (#937... 38 0.97 AA881111, AA881111 vz06e09.rl Soares mouse mammary gland NbMM... AA692425, AA692425 vt59b05.rl Barstead mouse irradiated colon... 36 3.8 AA049011, AA049011 mj48c09.rl Soares mouse embryo NbME13.5 14... 36 3.8 AA966976, AA966976 ua38fl1.rl Soares mouse mammary gland NbMM... AI047077, AI047077 uh61g06.rl Soares mouse embryonic stem cel... 36 3.8 AA103139, AA103139 mo17f05.rl Life Tech mouse embryo 13 5dpc ... 36 3.8

AA840087, AA840087 uc99h12.rl Soares mouse uterus NMPu Mus mu... 36 3.8 AA543280, AA543280 vj80h05.rl Soares mouse mammary gland NbMM... 36 3.8 AA007762, AA007762 mg76b03.rl Soares mouse embryo NbME13.5 14... AA014223, AA014223 mh20a03.rl Soares mouse placenta 4NbMP13.5... AA591243, AA591243 vm18c04.rl Knowles Solter mouse blastocyst... 36 3.8 AA921560, AA921560 vy52c06.r1 Stratagene mouse lung 937302 Mu... 36 3.8 W20935, W20935 mb96c07.rl Soares mouse p3NMF19.5 Mus musculus... AA793845, AA793845 vr35e12.rl Barstead mouse myotubes MPLRB5 ... AA856298, AA856298 vw99b01.r1 Soares 2NbMT Mus musculus cDNA ... AA833479, AA833479 uc91c03.rl Soares mouse uterus NMPu Mus mu... AA218431, AA218431 my07e05.rl Barstead mouse lung MPLRB2 Mus ... 36 3.8 AA089210, AA089210 mo05d10.r1 Stratagene mouse lung 937302 Mu... 36 3.8 AI047609, AI047609 uh63g07.rl Soares mouse embryonic stem cel... 36 3.8 AA797372, AA797372 vw27b08.rl Soares mouse mammary gland NbMM... 36 3.8 AA138067, AA138067 mq37c11.r1 Barstead MPLRB1 Mus musculus cD... 36 3.8 W83172, W83172 mf09a06.r1 Soares mouse p3NMF19.5 Mus musculus... 36 3.8 AA542324, AA542324 vk53e07.r1 Stratagene mouse Tcell 937311 M... 36 3.8 AA967316, AA967316 vj47a03.rl Stratagene mouse skin (#937313)... 36 3.8 AI035925, AI035925 ub49e05.rl Soares mouse mammary gland NbMM... AA497479, AA497479 vh29b12.rl Soares mouse mammary gland NbMM... W87202, W87202 mf55g08.rl Soares mouse embryo NbME13.5 14.5 M... AA016868, AA016868 mh36e12.r1 Soares mouse placenta 4NbMP13.5... AA467482, AA467482 ve01a10.rl. Soares mouse NbMH Mus musculus ... 36 3.8 AA014768, AA014768 mi66h04 rl Soares mouse embryo NbME13.5 14... AA711859, AA711859, vu59c10 rl Soares mouse mammary gland NbMM... AA530735, AA530735 vj32g11:r1 Stratagene mouse diaphragm (#93... 36 3.8 AA009071, AA009071 mg87b11.r1 Soares mouse embryo NbME13.5 14... AA711873, AA711873 vu28e06.rl Barstead mouse myotubes MPLRB5 ... AA645119, AA645119 vs72d03.r1 Stratagene mouse skin (#937313)... 36 3.8 AA106301, AA106301 ml81a09.r1 Stratagene mouse kidney (#93731... 36 3.8 AA111190, AA111190 mp66b11.rl Soares 2NbMT Mus musculus cDNA ... 36 3.8 C87249, C87249 Mus musculus fertilized egg cDNA 3'-end seque... AA796056, AA796056 vo65d01.rl Soares mouse mammary gland NbMM... 36 3.8 AA230661, AA230661 mw15f08.rl Soares mouse 3NME12 5 Mus muscu... AA033481, AA033481 mi42b07.rl Soares mouse embryo NbME13.5 14... AA000268, AA000268 mg32e09.rl Soares mouse embryo NbME13.5 14... AI048515, AI048515 uh61e08.rl Soares mouse embryonic stem cel... 36 3.8 W61547, W61547 md57a02.r1 Soares mouse embryo NbME13.5 14.5 M... AA790448, AA790448 vw04f09.rl Soares mouse mammary gland NbMM... 36 3.8 AA824205, AA824205 vy20g08.r1 Stratagene mouse macrophage (#9... 36 3.8 AA475425, AA475425 vh20g09.r1 Soares mouse mammary gland NbMM... 36 3.8 W62989, W62989 md88h12.r1 Soares mouse embryo NbME13.5 14.5 M... W77724, W77724 me84h06.rl Soares mouse embryo NbME13.5 14.5 M... AA239210, AA239210 mx89e02.rl Soares mouse NML Mus musculus c...

AA957268, AA957268 UI-R-E1-fq-e-06-0-UI.s1 UI-R-E1 Rattus nor... 42 0.055 AA891284, AA891284 EST195087 Normalized rat heart, Bento Soar... 40 0.22 Z83055, RNZ83055 R.norvegicus mRNA; expressed sequence tag; ... 40 0.22 AI010967, AI010967 EST205418 Normalized rat muscle, Bento Soa... 40 0.22 AA852049, AA852049 EST194818 Normalized rat spleen, Bento Soa... 40 0.22 H33489, H33489 EST109542 Rat PC-12 cells, NGF-treated (9 days... AA799616, AA799616 EST189113 Normalized rat heart, Bento Soar... 40 0.22 Z83044, RNZ83044 R.norvegicus mRNA; expressed sequence tag; ... 40 0.22 AA660819, AA660819 00713 MtRHE Medicago truncatula cDNA 5' 38 0.86 AA956139, AA956139 UI-R-E1-fi-h-08-0-UI.s1 UI-R-E1 Rattus nor... 38 0.86 T00613, T00613-wEST01334-Caenorhabditis elegans cDNA clone CE... 38-0.86 AA785775, AA785775 h4b05a1.fl Aspergillus nidulans 24hr asexu... AA660859, AA660859 00754 MtRHE Medicago truncatula cDNA 5' si... 36 3.4 AA943364, AA943364 EST198863 Normalized rat brain, Bento Soar... C68472, C68472 C.elegans cDNA clone yk305a12: 5' end, singl... 36 3.4 AA800635, AA800635 EST190132 Normalized rat lung, Bento Soare... Z32602, ATTS2730 A. thaliana transcribed sequence; clone PAP... Z32603, ATTS2731 A. thaliana transcribed sequence; clone PAP... AA842765, AA842765 M-EST080 Sugarcane mature stalk Saccharum ... 36 3.4 AA955567, AA955567 UI-R-E1-fa-a-08-0-UI.s1 UI-R-E1 Rattus nor... 36 3.4 H32878, H32878 EST108396 Rat PC-12 cells, untreated Rattus sp... 36 3.4 Z33974, ATTS3035 A. thaliana transcribed sequence; clone PAP... 36 3.4 D45997, RICS10346A Rice cDNA, partial sequence (S10346 1A). 36 3.4 AA125602, AA125602 JM00M011: QM3: Miracidia: Sjc 3/96 Schistosom.... 36 3.4 AA800634, AA800634 EST190131 Normalized rat lung, Bento Soare... 36 3.4 D46069, RICS10475A Rice cDNA, partial sequence (S10475 1A). 36-3.4

SEQ ID NO:552

额款的第三

AND S

U66201, MMU66201 Mus musculus fibroblast growth factor homolo... 42 0.38
AF020738, AF020738 Mus musculus fibroblast growth factor-rela... 42 0.38
U66197, HSU66197 Human fibroblast growth factor homologous fa... 42 0.38
Z46966, MMIMOGN44 M.musculus mRNA for imogen 44. 40 1.5
U86662, LEU86662 Lycopersicon esculentum VPS41 (tVPS41) mRNA,... 40 1.5
U85773, HSU85773 Human phosphomannomutase (PMM2) mRNA, comple... 40 1.5

HUMAN ESTs

W22160, W22160 63A6 Human retina cDNA Tsp509I-cleaved sublibr... 791 0.0 AA860926, AA860926 ak22d06.s1 Soares testis NHT Homo sapiens ... 650 0.0

物的原

AA348243, AA348243 EST54707 Hippocampus I Homo sapiens cDNA 5... 513 e-143 AA551799, AA551799 nk04a11.s1 NCI_CGAP_Co2 Homo sapiens cDNA ... 363 4e-98 AA327309, AA327309 EST30621 Colon I Homo sapiens cDNA 5' end 353 4e-95 AA344913, AA344913 EST50856 Gall bladder II Homo sapiens cDNA... 337 2e-90 AA121198, AA121198 zl88g08.rl Stratagene colon (#937204) Homo... 317 2e-84 AA121174, AA121174 zl88g08.s1 Stratagene colon (#937204) Homo... 317 2e-84 AA001561, AA001561 ze46e07.s1 Soares retina N2b4HR Homo sapie... AA172158, AA172158 zp29a01.s1 Stratagene neuroepithelium (#93... N35888, N35888 yy28b05.s1 Homo sapiens cDNA clone 272529 3'. 40 0.72 AA877455, AA877455 ob33g01.s1 NCI_CGAP_Kid5 Homo-sapiens-cDNA... 40 0.72 AA573297, AA573297 nk98d09.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 40 0.72 AA040802, AA040802 zf07g05.s1 Soares fetal heart NbHH19W Homo... 40 0.72 R02514, R02514 ye70b08.r1 Homo sapiens cDNA clone 123063 5'. 40 0.72 AA514777, AA514777 ni24b01.s1 NCI_CGAP_Co4 Homo sapiens cDNA ... 40 0.72 AA041240, AA041240 zf07g05.r1 Soares fetal heart NbHH19W Homo... 40 0.72 AA888147, AA888147 04h11.s1 NCI_CGAP_Co10 Homo sapiens cDNA... 40 0.72 AA039536, AA039536 zk39h10.s1 Soares pregnant uterus NbHPU Ho... 40 0.72 AA416734, AA416734 zu08c01.s1 Soares testis NHT Homo sapiens ... 38 2.8 N25839, N25839 yx22e05.rl Homo sapiens cDNA clone 262496 5'. 38 2.8 AA431486, AA431486 zw72g01.s1 Soares testis NHT Homo sapiens ... N98472, N98472 yy65a04.r1 Homo sapiens cDNA clone 278382 5'. AA416815, AA416815 zu08c01.rl Soares testis NHT Homo sapiens ... 38 2.8 AA852281, AA852281 NHTBCae11g05rl Normal Human Trabecular Bon... 38 2.8 AA948291, AA948291 oq34d02.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... CONTRACTOR OF THE SECOND

AA616807, AA616807 vn68c05.rl Barstead mouse irradiated colon... 180 1e-43 AA185487, AA185487 mt62c07.rl Soares 2NbMT Mus musculus cDNA ... AA276740, AA276740 vc42a12.r1 Soares mouse 3NbMS Mus musculus... 40 0.26 AA469884, AA469884 vf71g10.r1 Barstead mouse pooled organs MP... 40 0.26 AA230758, AA230758 my32g10.rl Barstead mouse pooled organs MP... 40 0.26 AA038869, AA038869 mi95b10.rl Soares mouse p3NMF19.5 Mus musc... AA106439, AA106439 ml59a08.rl Stratagene mouse testis (#93730... 40 0.26 AA763419, AA763419 vw54a12.rl Soares mouse mammary gland NMLM... AA139459, AA139459 mq86a03.r1 Stratagene mouse melanoma (#937... 38 1.0 AA068686, AA068686 mm59a03.rl Stratagene mouse embryonic carc... 38 1.0 AA218431, AA218431 my07e05.rl Barstead mouse lung MPLRB2 Mus ... AI047077, AI047077 uh61g06.rl Soares mouse embryonic stem cel... 36 4.0 C87249, C87249 Mus musculus fertilized egg cDNA 3'-end seque... 36 4.0 AI035925, AI035925 ub49e05.r1 Soares mouse mammary gland NbMM... 36 4.0 AA111190, AA111190 mp66b11.rl Soares 2NbMT Mus musculus cDNA ... 36 4.0 AA645119, AA645119 vs72d03.rl Stratagene mouse skin (#937313)... 36 4.0 AA530735, AA530735 vj32g11.r1 Stratagene mouse diaphragm (#93... 36 4.0

	AA000268, AA000268 mg32e09.rl Soares mouse embryo NbME13.5 14 36 4.0
	AA793845, AA793845 vr35e12.r1 Barstead mouse myotubes MPLRB5 36 4.0
	AA04000/, AA04000/ ucyyh12.r1 Soares molise literus NMPh Mus mus 20.40
	AA/110/3, AA/110/3 VUZ8eUb.t Barstead mouse myotubes MDI DDs 20/40
	AA / 30446, AA / 30446 VW04I09.II Soates mouse mammary aland NILNAN 2.2.4.6
	AA100301, AA100301 ml81a09.rl Stratagene mouse kidney (#02721 26 4 0
	AA343280, AA343280 VI80h05.rl Soares mouse mammary gland NINANA 2014 o
	AA007702, AA007702 mg/6b03.rl Soares mouse embryo NhME12 5 14 26 4 6
	AA921560, AA921560 vy52c06.r1 Stratagene mouse lung 937302 Mu 36 4.0
	AA092423, AA092423 Vi39b03.rl Barstead mouse irradiated colon 2.6.4.6
	AA6534/9, AA6534/9 uc91c03.rl Soares mouse uterus NMPu Mus mu
	AA624203, AA624203 Vy20g08.rl Stratagene mouse macrophage (#0 26 4.0
	AA033461, AA033481 mi42b0/.rl Soares mouse embryo NbMC12 5 14 26 4 6
	wo1347, wo1347 md3/a02.rl Soares mouse embryo NhMF13 5 14 5 M 26 4.0
	AA790030, AA790030 V003d01.rl Soares mouse mammary gland Nikkaka 26.40
	AA40/462, AA40/462 Ve01a10.rl Soares mouse NhMH Mus musculus 26.4.0
	AA239210, AA239210 mx89e02.rl Soares mouse NML Mus musquisse and a contraction of the con
•	AA001111, AA001111 VZ00e09.rl Soares mouse mammary gland NhMM
	AAJ42324, AAJ42324 VKJ36U/.rl Stratagene mouse Toell 037311 M 26 40
	AAU09210, AAU09210 moudd10.rl Stratagene mouse lung 027202 No. 26 4 6
• .	W///24, W///24 me84h06.rl Soares mouse embryo NhMF13 5 14 5 M 26 4 6
e Design	A1040313, A1040313 Un01e08.rl Soares mouse embryonic stem col 26.40
e ja	AA0090/1, AA0090/1 mg8/bll.tl Soares mouse embryo NbME12 5 14
145 V 3 1	AA4/3423, AA4/3423 Vn20g09.rl Soafes molise mammary aland NBMM 26 40
	AA230001, AA230001 mw15f08.rl Soares mouse 3NMF12 5 Mus museu 26 4.0
1, +	AA138067, AA138067 mg37c11:r1 Barsfead MPD RR to Mus musculus a D
	W831/2, W831/2 mf09a06.rl Soares mouse n3NMF10 5 Mus musculus 26 4.9
	AA/9/3/2, AA/9/3/2 VW2/008.II Soares mouse mammary gland Nih MA 20 40
	AA/11809, AA/11809 vub9c10.rl Soares mouse mammary gland NihAAA 26.40
	AA90/310, AA90/310 V/4/aU3.rl Stratagene mouse skin (#037313) 26 40
	W 0 / 202, W 8 / 202 MIDD g U8.r I Soares mouse embryo NhMF13 5 14 5 M 20 4 0
	AA103139, AA103139 M01/I03.Il Life Tech mouse embryo 13 5dno 26 4 0
	AAU14223, AAU14223 mh2UaU3.II Soares mouse placenta (NbMD12.5 20.4.0
	W02969, W02989 md88h12.rl Soares mouse embryo NhMF13 5 14 5 M 26 4 6
	w 20733, w 20933 moyoco /.rl Soares mouse n3NMF10.5 Mus musculus 26.4.0
	AA300970, AA900970 Ua38III.II Soares mouse mammary gland NIMM 22.40
	AA630298, AA830298 VW99b01.rl Soares 2NhMT Mus musculus aDNA 20.40
	AA014/08, AA014/08 ml66h04.rl Soares mouse embryo NhME12 5 14 26 40
	AA49/4/9, AA49/4/9 Vh29b12.rl Soares mouse mammary gland NbMM 26.4.0
	AAU47011, AAU47011 III]48CUY, II SOares molise embryo NhME12 5 14 26 40
	AAU10808, AAU16868 mh36e12.rl Soares mouse placents 4NhMD12.5
	A104/609, A104/609 uh63g0/.rl Soares mouse embryonic stem cel 26, 4.0
	AA591243, AA591243 vm18c04.rl Knowles Solter mouse blastocyst 36 4.0

AA957268, AA957268 UI-R-E1-fq-e-06-0-UI.s1 UI-R-E1 Rattus nor... T00613, T00613 wEST01334 Caenorhabditis elegans cDNA clone CE... AA956139, AA956139 UI-R-E1-fi-h-08-0-UI.s1 UI-R-E1 Rattus nor... 38 0.90 AA660819, AA660819 00713 MtRHE Medicago truncatula cDNA 5' AA125602, AA125602 JM00M011.QM3 Miracidia Sjc 3/96 Schistosom... 36 3.6 Z33974, ATTS3035 A. thaliana transcribed sequence; clone PAP... C68472, C68472 C.elegans cDNA clone yk305a12:5' end, singl... AA785775, AA785775 h4b05a1.f1 Aspergillus nidulans 24hr asexu... Z32602, ATTS2730 A. thaliana transcribed sequence; clone PAP... AA943364, AA943364 EST198863 Normalized rat brain, Bento Soar... Z32603, ATTS2731 A. thaliana transcribed sequence; clone PAP... AA842765, AA842765 M-EST080 Sugarcane mature stalk Saccharum ... D45997, RICS10346A Rice cDNA, partial sequence (S10346_1A). 36 3.6 AA955567, AA955567 UI-R-E1-fa-a-08-0-UI.s1 UI-R-E1 Rattus nor... AA800634, AA800634 EST190131 Normalized rat lung, Bento Soare... AA660859, AA660859 00754 MtRHE Medicago truncatula cDNA 5' si... 36 3.6 AA800635, AA800635 EST190132 Normalized rat lung, Bento Soare... 36 3.6 D46069, RICS10475A Rice cDNA, partial sequence (S10475_1A). 36 3.6 H32878, H32878 EST108396 Rat PC-12 cells, untreated Rattus sp...

Z99297, HS262D12 Homo sapiens DNA sequence from PAC 262D12 o... 1963 0.0 Z81540, CEF46B3 Caenorhabditis elegans cosmid F46B3, complet... 40 0.89 U67488, U67488 Methanococcus jannaschii section 30 of 150 of ... 38 3.5 AE000786, AE000786 Borrelia burgdorferi plasmid lp28-2, compl... 38 3.5 L02053, OMMGSHTR1 Ommastrephes sloani glutathione transferase... 38 3.5 AC004521, ATAC004521 Arabidopsis thaliana chromosome II BAC F... 38 3.5 L41250, DROGPDHN Drosophila nebulosa glycerol-3-phosphate deh... 38 3.5 AE000619, HPAE000619 Helicobacter pylori section 97 of 134 of... 38 3.5 U39720, Mycoplasma genitalium ackA, licA, mucB, rpL10, rpL32... 38 3.5 AC004533, HUAC004533 Homo sapiens Chromosome 16 BAC clone CIT... 38 3.5 U62292, HSU62292 Human elastin (ELN) gene, partial cds 38 3.5

HUMAN ESTs

W02630, W02630 za52c02.rl Soares fetal liver spleen 1NFLS Hom... 1009 0.0 AA557183, AA557183 nl74f12.sl NCI_CGAP_Br2 Homo sapiens cDNA ... 874 0.0 AA761171, AA761171 nz09e11.sl NCI_CGAP_GCB1 Homo sapiens cDNA... 866 0.0 AA976975, AA976975 oq26g11.sl NCI_CGAP_GC4 Homo sapiens cDNA ... 854 0.0 AA449515, AA449515 zx06b11.rl Soares total fetus Nb2HF8 9w Ho... 848 0.0

AA678392, AA678392 zi26h10.s1 Soares fetal liver spleen 1NFLS... 848 0.0 AA909198, AA909198 ol12d06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 831 0.0 W79208, W79208 zd79g05.rl Soares fetal heart NbHH19W Homo sap... 813 0.0 W03125, W03125 za53c02.rl Soares fetal liver spleen 1NFLS Hom... 807 0.0 W94750, W94750 ze13h08.rl Soares fetal heart NbHH19W Homo sap... 785 0.0 AA354894, AA354894 EST63217 Jurkat T-cells V Homo sapiens cDN... 771 0.0 H70075, H70075 yr92b03.r1 Homo sapiens cDNA clone 212717 5'. W77859, W77859 zd70b08.rl Soares fetal heart NbHH19W Homo sap... 728 0.0 AA425424, AA425424 zw48f03.s1 Soares total fetus Nb2HF8 9w Ho... 718 0.0 AA476893, AA476893 zu29f09.rl Soares ovary tumor NbHOT Homo s... 688_0.0 AA456676, AA456676 aa01h02.s1 Soares NhHMPu S1 Homo sapiens c... 688 0.0 AA662309, AA662309 nu97c11.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 668 0.0 W72135, W72135 zd70b08.s1 Soares fetal heart NbHH19W Homo sap... 650 0.0 N74362, N74362 za52c02.s1 Homo sapiens cDNA clone 296162 3'. 622 e-176 N66917, N66917 za47d09.s1 Homo sapiens cDNA clone 295697 3'. 585 e-165 AA251287, AA251287 zs04c06.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 583 e-164 AA971082, AA971082 op70h01.s1 Soares_NFL_T_GBC_S1 Homo sapien... 567 e-160 W78165, W78165 zd79g05.s1 Soares fetal heart NbHH19W Homo sap... 565 e-159 AA253290, AA253290 zr71g03.r1 Soares NhHMPu S1 Homo sapiens c... 559 e-157 AA729063, AA729063 nw22f08.s1 NCI_CGAP_GCB0 Homo sapiens cDNA... 557 e-157 AA987313, AA987313 or81h06.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 553 ee-155 AA300954, AA300954 EST13832 Testis tumor Homo sapiens cDNA 5 541s e-152 section 150 sectio AA425594, AA425594 zw48f03.r1 Soares total fetus Nb2HF8 9w Ho. 35529 e-148 N24014, N24014 yx87g10.s1 Homo sapiens cDNA clone 268770 31. 523 6-146 200 0 AA947355, AA947355 od86e12.s1 NCI_CGAP_Ov2 Homo sapiens cDNA 504 e-140 AA121074, AA121074 zl88b06.s1 Stratagene colon (#937204) Homo. 460 e 1274 zl88b06.s1 AA742964, AA742964 ny15d01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 454 e-126 AA306814, AA306814 EST177885 Colon carcinoma (HCC) cell line ... 452 e-125 W87699, W87699 zh65b11.r1 Soares fetal liver spleen 1NFLS S1 ... 446 e-123 W87700, W87700 zh65b11.s1 Soares fetal liver spleen 1NFLS S1 ... 438 e-121 AA449084, AA449084 zx06b11.s1 Soares total fetus Nb2HF8 9w Ho... 398 e-109 N99231, N99231 zb76f11.s1 Soares senescent fibroblasts NbHSF ... 391 e-106 N49900, N49900 yv24d04.s1 Homo sapiens cDNA clone 243655 3'. AA782911, AA782911 ai62a10.s1 Soares testis NHT Homo sapiens ... 365 6e-99 AA936553, AA936553 on23g11.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 361 9e-98 N74414, N74414 za53c02.s1 Homo sapiens cDNA clone 296258 3'. 353 2e-95 AA834628, AA834628 od98a10.s1 NCI_CGAP_Ov2 Homo sapiens cDNA ... 341 8e-92 AA693756, AA693756 zi55f11.s1 Soares fetal liver spleen 1NFLS... 341 8e-92 AA909616, AA909616 ol09d06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 341 8e-92 H69662, H69662 yr92b03.s1 Homo sapiens cDNA clone 212717 3'. AA249558, AA249558 jj7521.seq.F Human fetal heart, Lambda ZAP... 317 1e-84 AA911960, AA911960 oh88g08.s1 NCI_CGAP_Co8 Homo sapiens cDNA ... 317 1e-84 AA969099, AA969099 op55e06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 303 2e-80 AA766191, AA766191 oa12g08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 212 5e-53 AA689312, AA689312 nx05e10.s1 NCI_CGAP_GC3 Homo sapiens cDNA ... 200 2e-49

ា វិស្សតិន វិស្សតិន

1. 18 18 18 1

TU JAIVTAUS

AA418586, AA418586 zv93e05.rl Soares NhHMPu S1 Homo sapiens c... 182 5e-44 AA418570, AA418570 zv93e05.s1 Soares NhHMPu S1 Homo sapiens c... 182 5e-44 AA534939, AA534939 nf82f03.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 167 3e-39 AA888430, AA888430 nw74e05.s1 NCI_CGAP_Pr12 Homo sapiens cDNA... 167-3e-39 N50003, N50003 yv24d04.rl Homo sapiens cDNA clone 243655 5' s... 149 6e-34 AA535102, AA535102 nf84f06.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 135 1e-29 AA262335, AA262335 zr71g03.s1 Soares NhHMPu S1 Homo sapiens c... 129 6e-28 AA766681, AA766681 oa34c05.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 105 9e-21 AA761492, AA761492 nz27a05.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 101 1e-19 AA688350, AA688350 nv15a05.s1 NCI_CGAP_Pr22 Homo sapiens cDNA..._90_5e-16___ AA347041, AA347041 EST53285 Fetal heart II Homo sapiens cDNA ... 76 8e-12 T94395, T94395 ye35e02.s1 Homo sapiens cDNA clone 119738 3'. 46 0.007 AA833565, AA833565 aj46a02.s1 Soares testis NHT Homo sapiens ... 46 0.007 AA095460, AA095460 14630.seq.F Fetal heart, Lambda ZAP Expres... AA904415, AA904415 ok07e06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 40 0.43 AI018800, AI018800 ov32h04.x1 Soares_testis_NHT Homo sapiens ... 38 1.7 AA631083, AA631083 nq77e07.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 38 1.7

AA399772, AA399772 vd70g05.rl Beddington mouse embryonic regi... 347 5e-94 AA467106, AA467106 vd98b04.r1 Soares mouse NbMH: Mus musculus ... 309 1e-82 AI046844, AI046844 uh55c11.rl Soares mouse embryonic stem cel... 208 3e-52 AA475075, AA475075 vh11g05.r1 Soares mouse mammary gland NbMM... 194 4e-48 AA646094, AA646094 vs31e06.rl Stratagene mouse Tcell 937311 M... 186 1e-45 AA390020, AA390020 vb30e07.rl Soares mouse lymph node NbMLN M... 170 6e-41 AA245553, AA245553 my52g04.rl Barstead mouse pooled organs MP... 170 6e-41 AA930741, AA930741 vs57b02.rl Stratagene mouse skin (#937313)... 155 4e-36 W62610, W62610 md58c06.r1 Soares mouse embryo NbME13.5 14.5 M... 117 8e-25 AA239270, AA239270 my40e01.rl Barstead mouse pooled organs MP... 109 2e-22 AA015148, AA015148 mh16e01.rl Soares mouse placenta 4NbMP13.5... 54 1e-05 AA764095, AA764095 vw09h02.rl Soares 2NbMT Mus musculus cDNA ... AA238570, AA238570 my35h02.rl Barstead mouse pooled organs MP... 38 0.61 AA600576, AA600576 vm75f08.r1 Knowles Solter mouse blastocyst... 38 0.61 AA636273, AA636273 vq76a10.s1 Knowles Solter mouse 2 cell Mus... 36 2.4 AA051407, AA051407 mj41f08.rl Soares mouse embryo NbME13.5 14... AA823136, AA823136 vw41b03.r1 Soares mouse mammary gland NbMM... W83831, W83831 mf26a06.r1 Soares mouse embryo NbME13.5 14.5 M... 36 2.4 D77944, MUSC0D06 Mouse embryonal carcinoma F9 cell cDNA, C0D06 36 2.4 AA915408, AA915408 vz29h04.r1 Soares 2NbMT Mus musculus cDNA ... 36 2.4 AI047229, AI047229 uh63a09.r1 Soares mouse embryonic stem cel... 36 2.4 AA271880, AA271880 va73d01.r1 Soares mouse 3NME12 5 Mus muscu... AA475165, AA475165 vg95f01.rl Barstead mouse pooled organs MP... 36 2.4 AA619774, AA619774 vl58a05.s1 Knowles Solter mouse 2 cell Mus... 36 2.4

AA673116, AA673116 vn49g11.r1 Barstead mouse myotubes MPLRB5 ... 36 2.4 AA870623, AA870623 vq24a07.r1 Barstead stromal cell line MPLR... 36 2.4 W58907, W58907 md52f12.r1 Soares mouse embryo NbME13.5 14.5 M... 36 2.4 AA690593, AA690593 vu53d05.r1 Soares mouse mammary gland NbMM... 36 2.4 AA754801, AA754801 vu21f03.r1 Barstead mouse myotubes MPLRB5 ... 36 2.4 AA271607, AA271607 va72a12.r1 Soares mouse 3NME12 5 Mus muscu... 36 2.4 AA064256, AA064256 mj66a03.r1 Soares mouse p3NMF19.5 Mus musc... 36 2.4 AA475144, AA475144 vg95d01.r1 Barstead mouse pooled organs MP... 36 2.4 AA197736, AA197736 mv02g08.r1 GuayWoodford Beier mouse kidney... 36 2.4

AA817944, AA817944 UI-R-A0-ag-e-01-0-UI.s1 UI-R-A0 Rattus nor... 40 0.14 F14714, SSC8B01 S.scrofa mRNA; expressed sequence tag (5'; c... 38 0.54 H91505, H91505 SWMFCA089SK Brugia malayi microfilaria cDNA (S... 36 2.1 AA998610, AA998610 UI-R-C0-if-c-04-0-UI.s1 UI-R-C0 Rattus nor... 36 2.1 AA893562, AA893562 EST197365 Normalized rat liver, Bento Soar... 36 2.1 AI008397, AI008397 EST202848 Normalized rat embryo, Bento Soa... 36 2.1

And the confidence of the control of

SEQ ID NO:554

TO THE CONTRACTOR OF THE SECTION OF

すすし ノンパロマルロン

Z92544, HS313D41 Human DNA sequence from cosmid 313D11 from ... 700 0.0 Z46940, HSPRMTNP2 H.sapiens PRM1 gene, PRM2 gene and TNP2 gene 44 0.048 U85039, TMU85039 Theileria mutans 32 kDa immunodominant pirop... 42 0.19 U85251, TMU85251 Theileria mutans 32 kDa immunodominant pirop... 42 0.19 AF003630, AF003630 Theileria mutans clone 15, 32 kDa immunodo... 42 0.19 AF003629, AF003629 Theileria mutans clone 9, 32 kDa immunodom... 42 0.19 AB007884, AB007884 Homo sapiens KIAA0424 mRNA, partial cds 42 0.19 U85040, TMU85040 Theileria mutans 32 kDa immunodominant pirop... 42 0.19 Z97343, ATFCA8 Arabidopsis thaliana DNA chromosome 4, ESSA I... 40 0.75 L19655, TOSRNA1X Tomato ringspot virus polyprotein (RNA-1) ge... 40 0.75 M73822, TOSRNA1A Tomato ringspot virus RNA1 gene, 5' end. 40 0.75 L02543, BOVMTNNT Bos taurus nicotinamide nucleotide transhydr... 40 0.75 J03534, BOVNAD Bovine mitochondrial nicotinamide nucleotide t... 40 0.75 M62862, TRBRTE Trypanosoma cruzi retrotransposon encoding gag... 40 0.75 X72711, MMREPCFC M.musculus mRNA for replication factor C, 1... 38 3.0 M88489, MUSNBP Mus musculus nonamer binding protein mRNA, com... 38 3.0 U36441, MMU36441 Mus musculus differentiation specific elemen... 38 3.0 AB002354, AB002354 Human mRNA for KIAA0356 gene, complete cds J03149, CATFMSC Cat (F.domesticus) c-fms proto-oncogene mRNA ... 38 3.0 J05475, CHKVICOLL Chicken type VI collagen alpha 2 (VI) subun... 38 3.0

· 141

· 自有物种 计图象数据 (1965)。

AF038163, AF038163 Homo sapiens interleukin-15 (IL-15) gene, 38 3.0	
X75917, HSFBMBF H.sapiens mRNA for fetal beta-MHC binding fa 38 3.0	
X06542, DMHSPG3 Drosophila heat shock gene 3 from 67B locus 38 3.0	
D17315, DRODAGK Fruit fly mRNA for diacylglycerol kinase, co 38 3.0	
Z58600, HS45E3F H.sapiens CpG DNA, clone 45e3, forward read 38 3.0	
D78638, D78638 Xenopus laevis mRNA for DNA (cytosine-5-)-met 38 3.0	
Z49204, MMNADPTRH M.musculus mRNA for NADP transhydrogenase. 38 3	.0
L10425, BPEMETC Bordetella avium beta-cystathionase-lyase (me 38 3.0	. •
U01222, U01222 Mus musculus activator 1 large subunit (A1-p14 38 3.0	
U15037, MMU15037 Mus musculus replication factor C large subu 38 3.0	
K01643, FCSSMONC Feline sarcoma virus (McDonough strain) tran 38 3.0	
Z57538, HS183C6F H.sapiens CpG DNA, clone 183c6, forward rea 38 3.0	
U07157, MMU07157 Mus musculus ISRE-binding protein (IBF-1) mR 38 3.0	
Z64961, HS183F7R H.sapiens CpG DNA, clone 183f7, reverse rea 38 3.0	

HUMAN ESTs

SEO ID NO:555

The State of the S

· 四层在影片的影響是沒有大。

AF039693, AF039693 Homo sapiens unknown protein mRNA, complet... 916 0.0 S51239, S51239 calreticulin [Aplysia californica=marine snail... 48 0.005 Z74035, CEF47G9 Caenorhabditis elegans cosmid F47G9, complet... 46 0.019 AF022814, AF022814 Fugu rubripes transcription factor (SLP-1)... 44 0.073 X82638, CSCYTOX C.sordelii cytotoxin gene 42 0.29 U63063, SCU63063 Saccharomyces cerevisiae something about sil... 42 0.29 X63501, SCRPC53 S.cerevisiae RPC53 gene for RNA polymerase C... U67572, U67572 Methanococcus jannaschii section 114 of 150 of... 42 0.29 Z74201, SCYDL153C S.cerevisiae chromosome IV reading frame O... 42 0.29 U66032, MTU66032 Methanosarcina thermophila CO dehydrogenase/... 42 0.29 Z95620, SPBC3D6 S.pombe chromosome II cosmid c3D6 42 0.29 X97751, SCIV23 S.cerevisiae chrIV genes STE7, CLB3, MSH5, RP... 42 0.29 X65541, ATCAN A.thaliana mRNA for carbonic anhydrase L14750, ATHCARANHY Arabidopsis thaliana carbonic anhydrase ge... U00995, U00995 Rattus norvegicus TA1 mRNA, complete cds. S73876, S73876 FPR3=FKBP-70 [Saccharomyces cerevisiae, Genomi... U12825, SCU12825 Saccharomyces cerevisiae transcription facto... 40 1.1 Z74237, SCYDL189W S.cerevisiae chromosome IV reading frame O... 40 1.1 U76906, REU76906 Rhizobium etli FixK (fixK), FixN (fixN), mon... 40 1.1

AF050157, MMHC135G15 Mus musculus major histocompatibility lo 40 1.1
X58857, SCPPH22 S. cerevisiae PPH22 gene for protein phosphat 40 1.1
Y 10 2 10 VI DDI NV V gamentinin in C 10 10
Z68341, CEF01G4 Caenorhabditis elegans cosmid F01G4, complet 40 1.1
WILLIAM WILLSHOOM MOUSE homoodomain must 'CTT 443 man
\$72144 \$72144 home sistemate 5 and 5 and 5
134569 VSCFDD3A Coochenemyrees committee (1
D78303, D78303 Rattus norvegicus YT521 mRNA for RNA splicing 40 1.1
X83276, SCDNAIV S. cerevisiae DNA for ORFs from chromosome IV 40 1.1
U54558, HSU54558 Human translation initiation factor eIF3 p66 40 1.1
Z50109, CEC09H10 Caenorhabditis elegans cosmid C09H10, compl 40 1.1
X56983, EAVATP1 E.arvense gene for catalytic 70kDa V-ATPase 40 1.1
AB011125, AB011125 Homo sapiens mRNA for KIAA0553 protein, p 40 1.1
/ 4D 4 / 4 N 1 X // X Y O O O O YM CHO O O DO D
A FORMAN CEL 7V607 Common la latata de la communicación de la comm
Z28028, SCYKL028W S. cerevisiae chromosome XI reading frame O 40 1.1
AC005266, AC005266 Homo sapiens chromosome 19, cosmid F23465, 38 4.5
U60822, HSU60822 Human dystrophin (DMD) gene, exons 7, 8 and 38 4.5
M 76750 CV ACA DA2 CALLER (Communication of the communication of the com
X95267, GGRYR3 G.gallus mRNA for ryanodine receptor type 3 38 4.5
L37092, MUSCDPK Mus musculus cyclin-dependent kinase homology 28.4.5
Z72507, CEF17C11 Caenorhabditis elegans cosmid F17C11, compl 38 4.5
U29608, DMU29608 Drosophila melanogaster large tumor suppress 38 4 5
Z49072, CET24A11 Caenorhabditis elegans cosmid T24A11 compl 38 4.5
M83142, RATBGASTR Rattus norvegicus beta-galactoside-alpha 2
Z20656, HSCAMHCA Homo sapiens of cardiac alpha-myosin heavy 32 4 5
M82937, YSACS2A Candida albicans chitin synthase 2 (CHS2) gen 29 45
U28888, MMU28888 Mus musculus neurogenic differentiation fact 39.45
S66408, S66408 c-erbB=proto-oncogene {exon 1 promoter} Ichic 28 4.5
AC002396, AC002396 Arabidopsis thaliana chromosome I BAC F316 29 45
AEUUU000, MMAEUU0060 Mus musculus TCR beta locus from bases 5 29 4.5
L3983/, DROWARTS Drosophila melanogaster tumor supressor (war 20 4 5
AG000377, AG000377 Homo sapiens genomic DNA 21g region clo 39 45
AU3032, HSMHCAGI Human alpha-MHC gene for myosin heavy chain 20 4.5
AC002108, AC002108 Genomic sequence from Mouse 4 complete so
U3/219, HSU3/219 Human cyclophilin-like protein CvP-60 mRNA 20/45
M38633, MUSP38GTA Mouse p58/GTA protein kinase mRNA complete 29 45
M25162, HUMMYHC08 Human cardiac alpha-myosin heavy chain (MVH) 39 45
246259, SCRPD3COS S.cerevisiae FY1676 RPD3 gene. 38 4 5
U09558, LJU09558 Lactobacillus johnsonii ATCC 11506 insertion 38 4.5
U66160, MMUSC104 Mus musculus extracellular matrix associated 38.45
Z/3126, SCYLL021W S.cerevisiae chromosome XII reading frame 39 4.5
U83981, HSU83981 Homo sapiens apoptosis associated protein (G 38 4.5

4. 有物的物

38 4.5
D38256, YSCSCT1 Yeast gene for suppressor of ctr mutation 38 4.5
X69838, HSG9A H.sapiens mRNA for G9a 38 4.5
X52952, RNCMOSO Rat mRNA for c-mos 38 4.5
U37221, HSU37221 Human cyclophilin-like protein mRNA, partial 38 4.5
X65880, DPRH4OP1 D.pseudoobscura rh4 opsin gene, exon 1 38 4.5
U58971, NTU58971 Nicotiana tabacum calmodulin-binding protein 38 4.5
Z35773, SCYBL012C S.cerevisiae chromosome II reading frame O 38 4.5
X67668, MMHMG2 M.musculus mRNA for high mobility group 2 pro 38 4.5
L81727, HSL81727 Homo sapiens (subclone 1 d5 from P1 H69) DNA 38 4.5
AL023800, HS833B2 Human DNA sequence *** SEQUENCING IN PROGR 38 4.5
X62438, HVPERO H.vulgare mRNA for peroxidase 38 4.5
AC004096, AC004096 Mouse Cosmid ma66a100 from 14D1-D2, comple 38 4.5
AL008980, PFSC03050 Plasmodium falciparum DNA *** SEQUENCING 38 4.5
U64827, MMU64827 Mus musculus extracellular matrix associated 38 4.5
AC003010, HUAC003010 Homo sapiens Chromosome 16 BAC clone CIT 38 4.5
AE001002, AE001002 Archaeoglobus fulgidus section 105 of 172 38 4.5
U86662, LEU86662 Lycopersicon esculentum VPS41 (tVPS41) mRNA, 38 4.5
M20386, CHKEGFR Chicken epidermal growth factor receptor (CER 38 4.5
M77637, CHKEGF Gallus gallus EGF/TGF-alpha receptor (c-erbB) 38 4.5
U08185, MMU08185 Mus musculus BALB/c zinc-finger protein Blim 38 4.5
AC004231, AC004231: Homo sapiens chromosome 17, clone hRPC.111 38 4.5
Z50100, HVC39SAT H vulgare GAA-satellite DNA 38 4.5
X53731, SCSPA2G S. cerevisiae SPA2 gene 38 4.5
U37220, HSU37220 Human cyclophilin-like protein mRNA, partial 38 4.5
X97560, SC32KBF Szcerevisiae 32kb DNA fragment of chromosome 38 4.5
AB011479, AB011479 Arabidopsis thaliana genomic DNA, chromos 38 4.5
U89340, LVU89340 Lytechinus variegtus Endo16 homolog (LvEndo1 38 4.5
U73850, TCU73850 Trypanosoma cruzi 29 kDa proteasome subunit 38 4.5
AB006698, AB006698 Arabidopsis thaliana genomic DNA, chromos 38 4.5
D37888, CYIMYC2 Cyprinus carpio c-myc gene for c-Myc, comple 38 4.5
AF017349, MMDSGIII 7 Mus musculus desmoglein 3 (Dsg3) gene, i 38 4.5
X91807, OSTA136 O.sativa mRNA for alpha-tubulin (clone OSTA 38 4.5
Z71587, SCYNL311C S.cerevisiae chromosome XIV reading frame 38 4.5
AE000742, AE000742 Aquifex aeolicus section 74 of 109 of the 38 4.5

HUMAN ESTs

AA324311, AA324311 EST27136 Cerebellum II Homo sapiens cDNA 5... 593 e-167 AA639190, AA639190 ns04a01.rl NCI_CGAP_Ew1 Homo sapiens cDNA ... 513 e-143 AA172199, AA172199 zo96a06.rl Stratagene ovarian cancer (#937... 505 e-141 AA588066, AA588066 nk10d08.sl NCI_CGAP_Co2 Homo sapiens cDNA ... 502 e-140 AA412036, AA412036 zt68d09.sl Soares testis NHT Homo sapiens ... 502 e-140 AA508745, AA508745 ni23a03.sl NCI_CGAP_Co4 Homo sapiens cDNA ... 502 e-140

AA480337, AA480337 ne33a03.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 502 e-140 AA902270, AA902270 ok69e04.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 502 e-140 AA947303, AA947303 ok20d04.s1 Soares_NSF_F8_9W_OT_PA_P_S1 Hom... 502 e-140 R23642, R23642 yh35e03.r1 Homo sapiens cDNA clone 131740 5'. 490 e-136 AA811913, AA811913 ob51d06.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 464 e-128 AA172083, AA172083 zo96a06.s1 Stratagene ovarian cancer (#937... 464 e-128 AA725458, AA725458 ai16g01.s1 Soares parathyroid tumor NbHPA ... 400 e-109 R26558, R26558 yh35e02.s1 Homo sapiens cDNA clone 131738 3'. 359 5e-97 AA402403, AA402403 zt68d09.rl Soares testis NHT Homo sapiens ... 315 6e-84 R58372, R58372 G3243 Fetal heart Homo sapiens cDNA clone G324... 262 8e-68 AA389703, AA389703 M421 Fetal heart, Lambda ZAP Express Homo ... 202 6e-50 W25749, W25749 11b4 Human retina cDNA randomly primed sublibr... 103 4e-20 W27158, W27158 22h9 Human retina cDNA randomly primed sublibr... T65784, T65784 yc11f10.s1 Homo sapiens cDNA clone 80395 3' si... AA179601, AA179601 zp49f10.rl Stratagene HeLa cell s3 937216 ... 42 0.14 AA928679, AA928679 on48e08.s1 NCI_CGAP_Co8 Homo sapiens cDNA ... 40 0.55 AA887972, AA887972 nq95g11.s1 NCI_CGAP_Co10 Homo-sapiens cDNA... 40 0.55 W46946, W46946 zc40c05.s1 Soares senescent fibroblasts NbHSF ... 40 0.55 AA887862, AA887862 nq99b08.s1 NCI_CGAP_Co10 Homo sapiens cDNA... 40 0.55 AA554819, AA554819 ni34d08.s1 NCI_CGAP_Lu1 Homo sapiens cDNA ... 40 0.55 AA557362, AA557362 nl81d12.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 40 0.55 AA252258, AA252258 zr29e04.s1 Stratagene NT2 neuronal precurs... 40, 0.55 N34310, N34310 yy52b10.s1 Homo sapiens cDNA clone 277147 3' s... 40 0.55 AI017648, AI017648 ou99b02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA......40 0.55 34 (1995) T17395, T17395 NIB846 Normalized infant brain, Bento Soares H.... 40.0.55 -AA219659, AA219659 zr05e10.s1 Stratagene NT2 neuronal precurs... 40 0.55 (1994) 200 AA463841, AA463841 zx67f06.r1 Soares total fetus Nb2HF8 9w Ho... 40 0.55 N66817, N66817 za09b11.s1 Homo sapiens cDNA clone 292029 3' s... AA167358, AA167358 zp06f12.s1 Stratagene ovarian cancer (#937... 40 0.55 AA063505, AA063505 zf70d02.r1 Soares pineal gland N3HPG Homo ... 40 0.55 AA731625, AA731625 nw64a04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.55 AA100119, AA100119 zl80g04.sl Stratagene colon (#937204) Homo... AA181572, AA181572 zp51d04.s1 Stratagene HeLa cell s3 937216 ... 40 0.55 AA327182, AA327182 EST30459 Colon I Homo sapiens cDNA 5' end ... R48608, R48608 yj65f07.s1 Homo sapiens cDNA clone 153637 3' s... 40 0.55 AA678485, AA678485 ah06e04.s1 Gessler Wilms tumor Homo sapien... 40 0.55 AA082353, AA082353 zn38c11.rl Stratagene endothelial cell 937... 40 0.55 AA633213, AA633213 nq57c06.s1 NCI_CGAP_Co9 Homo sapiens cDNA ... 40 0.55 W38410, W38410 zc77g09.s1 Pancreatic Islet Homo sapiens cDNA ... 40 0.55 AA345893, AA345893 EST51967 Gall bladder I Homo sapiens cDNA ... N26876, N26876 yx97f06.s1 Homo sapiens cDNA clone 269699 3' s... N95279, N95279 zb60c09.s1 Soares fetal lung NbHL19W Homo sapi... AI041637, AI041637 ox92h08.x1 Soares_senescent_fibroblasts_Nb... 40 0.55 N67830, N67830 za05d12.s1 Homo sapiens cDNA clone 291671 3' s... 40 0.55

```
AA535094, AA535094 nf84e06.s1 NCI_CGAP_Co3 Homo sapiens cDNA ...
AA514414, AA514414 nf57d11.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 40 0.55
T56802, T56802 ya71h07.s2 Homo sapiens cDNA clone 67165 3' co... 40 0.55
N68147, N68147 yz55f12.s1 Homo sapiens cDNA clone 286991 3' s... 40_0.55
AA535811, AA535811 nf93g10.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 40 0.55
AA115591, AA115591 zl05g09.s1 Soares pregnant uterus NbHPU Ho... 40 0.55
N75851, N75851 za96g11.s1 Homo sapiens cDNA clone 300452 3'.
                                                              40 0.55
AA534433, AA534433 nf80a08.s1 NCI_CGAP_Co3 Homo sapiens cDNA ...
H99778, H99778 yx36g01.s1 Homo sapiens cDNA clone 263856 3' s... 40 0.55
AA970859, AA970859 oo81h03.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 40 0.55
F02131, HSC0PF092 H. sapiens partial cDNA sequence; clone c-... 40 0.55
AA810279, AA810279 od14g11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.55
AA595146, AA595146 nl84b01.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 40 0.55
AA632386, AA632386 np67e06.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 40 0.55
AA135124, AA135124 zo24c04.s1 Stratagene colon (#937204) Homo... 40 0.55
AA143500, AA143500 zo31b10.s1 Stratagene colon (#937204) Homo...
AA854992, AA854992 aj53g12.s1 Soares testis NHT Homo sapiens ... 40 0.55
AA156872, AA156872 zl20h07.s1 Soares pregnant uterus NbHPU Ho... 40 0.55
AA160994, AA160994 zq41c12.s1 Stratagene hNT neuron (#937233)... 40 0.55
AA961724, AA961724 or60a10.s1 NCI_CGAP_GC3 Homo sapiens cDNA ...
                                                                   40 0.55
AA551210, AA551210 nj27e09.s1 NCI_CGAP_AA1 Homo sapiens cDNA ...
                                                                    40 0.55, .... (4, 7, 7, 22)...
R44103, R44103 yg27c10.s1 Homo sapiens cDNA clone 33636 3'.
                                                             40 0.55
                                                                      一特佛文物相称为说:
AA938086, AA938086 oj08h08.s1 NCI_CGAP_Mel3 Homo sapiens cDNA... 40 0.55
AA576021, AA576021 nm57d11.s1 NCI_CGAP_Br3 Homo sapiens cDNA ... 40 0.55 (2.5) (2.5)
AA722725, AA722725 zg86b09.s1 Soares fetal heart NbHH19W Homo... 40 0.55 722725 AA8722725
AA678948, AA678948 ah08h11.s1 Gessler Wilms tumor Homo sapien... 40 0.55
W07435, W07435 za96g11.rl Soares fetal lung NbHL19W Homo sapi... 40 0.55
T34639, T34639 EST72167 Homo sapiens cDNA 5' end similar to s... 40 0.55
AA632245, AA632245 np67b09.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 40 0.55
R98701, R98701 yr31f08.s1 Homo sapiens cDNA clone 206919 3'.
                                                             40 0.55
R76418, R76418 yi58a10.s1 Homo sapiens cDNA clone 143418 3'.
                                                             40 0.55
AI028447, AI028447 ow08b09.x1 Soares_parathyroid_tumor_NbHPA ...
AI002929, AI002929 an15e12.s1 Gessler Wilms tumor Homo sapien... 40 0.55
AA779388, AA779388 ae26a03.s1 Soares NbHFB Homo sapiens cDNA ...
AA776220, AA776220 ah10f02.s1 Gessler Wilms tumor Homo sapien... 40 0.55
AA815223, AA815223 oc05c04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 40 0.55
W60807, W60807 zd27b08.s1 Soares fetal heart NbHH19W Homo sap... 40 0.55
AA666007, AA666007 ag71g01.s1 Gessler Wilms tumor Homo sapien... 40 0.55
AA643849, AA643849 np26f07.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 40 0.55
AA846740, AA846740 aj99b12.s1 Soares parathyroid tumor NbHPA ... 40 0.55
AA598498, AA598498 ae38h01.s1 Gessler Wilms tumor Homo sapien... 40 0.55
AA535972, AA535972 nf95a01.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 40 0.55
AA488544, AA488544 ab37g06.r1 Stratagene HeLa cell s3 937216 ... 40 0.55
AA866044, AA866044 oh52g07.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 40 0.55
C14370, C14370 Human fetal brain cDNA 5'-end GEN-050F01
                                                            40 0.55
```

```
AA237204, AA237204 mx18d02.rl Soares mouse NML Mus musculus c... 167 1e-39
   AA563402, AA563402 v175d08.r1 Knowles Solter mouse blastocyst... 38 0.78
   AA413261, AA413261 ve52f04.rl Beddington mouse embryonic regi...
                                                              38 0.78
   AA097645, AA097645 mm36f09.r1 Stratagene mouse skin (#937313)... 38 0.78
   AA122578, AA122578 mn25b08.rl Beddington mouse embryonic regi...
   AA122581, AA122581 mn25c08.rl Beddington mouse embryonic regi... 38 0.78
   AA646168, AA646168 vn11e06.r1 Stratagene mouse Tcell 937311 M...
   AA200881, AA200881 mu03c09.rl Soares mouse 3NbMS Mus musculus... 36-3.1
   AI048938, AI048938 uc84h06.y1 Sugano mouse kidney mkia Mus mu... 36 3.1
   AA217675, AA217675 mv01b09.rl Soares mouse lymph node NbMLN M... 36 3.1
   AI006387, AI006387 ua71d09.rl Soares 2NbMT Mus musculus cDNA ... 36 3.1
   AA162722, AA162722 mn42b07.rl Beddington mouse embryonic regi... 36 3.1
   AA207387, AA207387 mv89a11.rl GuayWoodford Beier mouse kidney... 36 3.1
   AA511382, AA511382 vg14b04.rl Soares mouse NbMH Mus musculus ...
   AA123112, AA123112 mn30g01.rl Beddington mouse embryonic regi... 36 3.1
   AA106683, AA106683 ml83h06.rl Stratagene mouse kidney (#93731... 36 3.1
   AA105882, AA105882 ml84h07.r1 Stratagene mouse kidney (#93731... 36 3.1
   W12171, W12171 ma59a10.rl Soares mouse p3NMF19.5 Mus musculus... 36 3.1
  AA208446, AA208446 mv85e01.rl GuayWoodford Beier mouse kidney... 36 3.49.20.480.440.440.4
 5/AA451370, AA451370 vf84h02ir1 Soares mouse mammary gland NbMM... 36/3/4/01399 A.J.
  AA244639; AA244639 mx02g12x1 Soares mouse NML Mus musculus c... 36 3 1424 4639 3 4 4
AA561847: AA561847 vl27a12irl Stratagene mouse Tcell 937311 M... 36 3.1 AA561847
   AA145817, AA145817 mq68a12.rl Soares 2NbMT Mus musculus cDNA ... 36 3.1
    AA052080, AA052080 mf69f12.r1 Soares mouse embryo NbME13.5 14... 36 3.1
    AA000646, AA000646 mg23f09.rl Soares mouse embryo NbME13.5 14... 36 3.1
    AA510521, AA510521 vh59a05.r1 Soares mouse mammary gland NbMM... 36 3.1
    AI006122, AI006122 ua86h01.r1 Soares mouse mammary gland NbMM...
    AA987039, AA987039 uc74e05.x1 Sugano mouse liver mlia Mus mus...
    W77413, W77413 me64d06.rl Soares mouse embryo NbME13.5 14.5 M...
    AA114809, AA114809 mn17e09.rl Beddington mouse embryonic regi... 36 3.1
    AA793564, AA793564 vn54c05.rl Barstead mouse myotubes MPLRB5 ...
    AA174537, AA174537 mt10f09.r1 Soares mouse 3NbMS Mus musculus...
    W62181, W62181 md87d08.rl Soares mouse embryo NbME13.5 14.5 M... 36 3.1
    AA272905, AA272905 va39d01.rl Soares mouse 3NME12 5 Mus muscu... 36 3.1
    AA286005, AA286005 va30e05.rl GuayWoodford Beier mouse kidney... 36 3.1
    AA212823, AA212823 mw81c07.rl Soares mouse NML Mus musculus c... 36 3.1
    AA125061, AA125061 mq83d10.r1 Stratagene mouse melanoma (#937... 36 3.1
```

3. 美元·金元

AA520185, AA520185 TgESTzz39d03.s1 TgME49 invivo Bradyzoite c 44 0.011
AA531917, AA531917 TgESTzz48f01.rl TgMF49 invivo Bradyzoite a 44,0011
AA319997, AA319997
AA320811, AA320811 IgESTzz64d05.rl TgMF49 invivo Bradyzoite a 44,0011
AA520866, AA520866 TgESTzz68e05.r1 TgME49 invivo Bradyzoite c 44 0.011
AA519844, AA519844 TgESTzz36c03.r1 TgME49 invivo Bradyzoite c 44 0.011
AA274295, AA274295 TgESTzz24c11.s1 TgME49 invivo Bradyzoite c 44 0.011
AA520901, AA520901 TgESTzz65a05.r1 TgME49 invivo Bradyzoite c 44 0.011
AA519829, AA519829 TgESTzz36a02.rl TgME49 invivo Bradyzoite c 44 0.011
AA531839, AA531839 TgESTzz47h05.r1 TgME49 invivo Bradyzoite c 44 0.011
C70525, C70525 C.elegans cDNA clone yk409g6: 5' end, single 44 0.011
AA520235, AA520235 TgESTzz53c06.r1 TgME49 invivo Bradyzoite c 42 0.044
T42800, T42800 6063 Lambda-PRL2 Arabidopsis thaliana cDNA clo 42 0.044
R29976, R29976 12581 Lambda-PRL2 Arabidopsis thaliana cDNA cl 42 0.044
H32045, H32045 EST106774 Rat PC-12 cells, untreated Rattus sp 40 0.18
AA819924, AA819924 MF5MA171.AE3 S. mansoni female adult Lambd 40 0.18
H37128, H37128 15257 Lambda-PRL2 Arabidopsis thaliana cDNA cl 40 0.18 T04367, T04367 414 Lambda-PRL2 Arabidopsis thaliana cDNA clon 40 0.18
RUNSOV DUNSOV 14000 T
ΔΔ660/277 ΛΛ660/277 00/200 λ/4DITY λ/ε 1!
194861 RR 194861 Pottus normagions olong TIOX22 Days
F14275, ATTS5197. A thaliana transcribed sequence slave XXXX
W43730, W43730 23107 CD4-16 Arabidopsis thaliana cDNA clone H 38 0.69
N65025; N65025 20065 Lambda-PRL2 Arabidopsis thaliana cDNA cl 38 0.69
AI001628, AI001628 EST0210 Tilapia brain cDNA library in pUC1 38 0.69
FILMONT TO MAN I TAKE Braceica namus of INIA alama DOCD
AA39339/, AA39359/ 27394 Lambda-PRI 2 Arabidonsis thations at No. 20, 20, 20
AA753070, AA753070 97AS2091 Rice Immature Seed Lambda ZAPII c 38 0.69
D41274, RICS3647A Rice cDNA, partial sequence (S3647_1A). 38 0.69
Z25731, ATTS1208 A. thaliana transcribed sequence; clone VCV 38 0.69
N82780, N82780 TgESTzy34e03.r1 TgRH Tachyzoite cDNA Toxoplasm 38 0.69
AA597822, AA597822 29889 Lambda-PRL2 Arabidopsis thaliana cDN 38 0.69
AA948906, AA948906 LD27590.5prime LD Drosophila melanogaster 38 0.69
AI013695, AI013695 EST208370 Normalized rat spleen, Bento Soa 38 0.69
AA/53263, AA/53263 96BS0294 Rice Immature Seed Lambda 7 A PIL o 29 0 co
F14402, ATTS5324 A. thaliana transcribed sequence: clone TAP 36.2.7
146158, 146158 9421 Lambda-PRL2 Arabidopsis thaliana cDNA clo 36, 27
C91400, C91400 Dictyostelium discoideum slug cDNA clone SSK 169 36 3 7
146009, 146009, 9272 Lambda-PRL2 Arabidopsis thaliana cDNA closs 26, 2, 7
AA440655, AA440655 LD15510.5prime LD Drosophila melanogaster 26, 2, 7
AA339374, AA359374 MU002092.NH3 York-Harron-lung-A Schietosom 26, 2, 7
L32623, A11S2/51 A. thaliana transcribed sequence: clone VAP 36.2.7
143683, 143683 6946 Lambda-PRL2 Arabidonsis thaliana cDNA close 36, 2,7
AA263535, AA263535 LD06645.5prime LD Drosophila melanogaster 26, 27
C37095, C37095 C.elegans cDNA clone yk482c11: 3' end, singl 36 2.7

C57017, C57017 C.elegans cDNA clone yk308h9: 3' end, single 36 2.7
C93837, C93837 Dictyostelium discoideum slug cDNA clone SSI 704 26 27
(9/)4) (9/)4) Dictroctolium dinosidente de part
Z33976, ATTS3037 A. thaliana transcribed sequence; clone YAP 36-2.7
R62091, R62091 EST351 Strongylocentrotus purpuratus cDNA 5' end. 36 2.7
AA567455, AA567455 HL01288.5prime HL Drosophila melanogaster 36 2.7
A A 753227 A A 753227 07 A S2216 Pine I
AA753227, AA753227 97AS2316 Rice Immature Seed Lambda ZAPII c 36 2
C92456, C92456 Dictyostelium discoideum slug cDNA, clone SSE569 36 2.7
T20458, T20458 2466 Lambda-PRL2 Arabidopsis thaliana cDNA clo 36 2.7
R29903, R29903 12310 Lambda-PRL2 Arabidonsis thalians aDNA at 26.0 g
19179641, 19179841 WESTUU378 Caenorhabditis elegans cDNA clone CE 26.05
21/302, A1 130130 A. thaliana transcribed sequence: clone TAT 26.37
D/1963, CELKU84H2K C.elegans cDNA clone vk84h2 · 31 and sin 2002
120404, 120404 2412 Lambda-PRL2 Arabidonsis thaliana cDNIA alogo 26 2 g
A1012/09, A1012/89 ES120/240 Normalized rat placenta Rento S 26 27
U03048, B1083048 Bos taurus clone 0429 mRNA seguence
AA000182, AA000182 00022 MtRHE Medicago truncatula oDNA 51 of the contract of
D40514, RICS14/4UA RICE CDNA, partial sequence (\$14740, 14)
C90110, C90110 Dictyostelium discoideum shig cDNA clore SS1102 26 0.7
130000, H30000 13009 Lambda-PRL2 Arabidonsis thelians a DNA at 26.0 g
AA039132, AA099132 HLU/804.5prime.Hl. Drosonhila melanogastar 26.07
C11922, C11922 C.elegans CDNA Clone vk 144a11 · 5' and single 26 27
AA816691, AA816691 LD03795.5prime LD Drosophila melanogaster 36 2.7
insperse of the Dissophila melanogaster 36 2.7

世界的最高的 医内部性内部 化二

SEQ ID NO:556

X99668, MM22A3 M.musculus mRNA for exon from unknown gene 22A3 260 5e-67 Z83760, CICOS41 Ciona intestinalis DNA sequence from cosmid ... 40 0.94 Z75710, CED1081 Caenorhabditis elegans cosmid D1081, complet... 40 0.94 U73628, HSU73628 Human chromosome 11 101h11 cosmid, complete ... 40 0.94 X99757, DMDYDTRO D.melanogaster mRNA for dystrophin 38 3.7 U51189, HIVU51189 HIV-1 clone 93th253 from Thailand, complete... 38 3.7 AC004118, AC004118 Drosophila melanogaster (P1 DS06238 (D26))... 38 3.7 U50313, CELF44C4 Caenorhabditis elegans cosmid F44C4. 38 3.7 AC004503, AC004503 Homo sapiens chromosome 5, P1 clone 1354A7... M16840, WHTCPCA2 Wheat Asp-tRNA gene. Y13381, RNAMPH1 Rattus norvegicus mRNA for amphiphysin, amph1 AC002994, AC002994 Homo sapiens chromosome 17, clone HRPC987K... AB008271, AB008271 Arabidopsis thaliana genomic DNA, chromos... 38 3.7 D49701, ASNNIAD Aspergillus oryzae niaD gene for nitrate red... 38 3.7

X59422, HSPLD1 H.sapiens Pl d1 repetitive DNA 38 3.7 Z98555, PFSC03027 Plasmodium falciparum DNA *** SEQUENCING I... 38 3.7

HUMAN ESTs

AA315671, AA315671 EST187451 Colon carcinoma (HCC) cell line ... 932 0.0 U56653, HSU56653 Human heat shock inducible mRNA 769 0.0 AA487685, AA487685 ab23b09.r1 Stratagene lung (#937210) Homo ... 751 0.0 AA044797, AA044797 zk67g12.r1 Soares pregnant uterus NbHPU Ho... 749 0.0 AA314922, AA314922 EST186735 HCC cell line (matastasis to liv... 698 0.0 AA082278, AA082278 zn42d12.rl Stratagene endothelial cell 937... 668 0.0 H22613, H22613 yn64f03.rl Homo sapiens cDNA clone 173213 5'. 624 e-177 AA044743, AA044743 zk67g12.s1 Soares pregnant uterus NbHPU Ho... 622 e-176 AA487470, AA487470 ab23b09.s1 Stratagene lung (#937210) Homo ... 601 e-170 AA121057, AA121057 zm22b03.r1 Stratagene pancreas (#937208) H... 581 e-164 AA194396, AA194396 zq05g05.s1 Stratagene muscle 937209 Homo s... 535 e-150 AA384283, AA384283 EST97787 Thyroid Homo sapiens cDNA 5' end AA669015, AA669015 ab88f01.s1 Stratagene lung (#937210) Homo ... 535 e-150 AA194336, AA194336 zq05g05.r1 Stratagene muscle 937209 Homo s... 505 e-141 R96173, R96173 yt84e09.rl Homo sapiens cDNA clone 231016 5'. AA028934, AA028934 zk08b09.s1 Soares pregnant uterus NbHPU Ho... 484 e-134 AA564849, AA564849 nj22c04.s1 NCI_CGAP_AA1 Homo sapiens cDNA ... 442 e-122 AA932576, AA932576 oo57g10.s1 NCI_CGAP Liu5 Homo sapiens cDNA ... 440 e-121 AA876265, AA876265 oi12g09.s1 NCI_CGAP_GC4 Homo sapiens cDNA 434 e-120 AA025525, AA025525 ze86a11.s1 Soares fetal heart NbHH19W Homo... 430 e-118 U56654, HSU56654 Human heat shock inducible mRNA 426 e-117 AA746600, AA746600 nx18c02.s1 NCI CGAP GC3 Homo sapiens cDNA ... 406 e-111 AA876346, AA876346 oj24a11.s1 NCI_CGAP Kid5 Homo sapiens cDNA... 406 e-111 W23082, W23082 78D1 Human retina cDNA Tsp509I-cleaved sublibr... 402 e-110 AI034059, AI034059 ow14h11.x1 Soares_parathyroid tumor NbHPA ... 357 2e-96 AA662934, AA662934 nu92d09.s1 NCI_CGAP Pr22 Homo sapiens cDNA... 323 2e-86 AA844331, AA844331 ai95f01.s1 Soares parathyroid tumor NbHPA ... 301 8e-80 AA249866, AA249866 y0761.seq.F Human fetal heart, Lambda ZAP ... 297 1e-78 R19215, R19215 yg24b07.rl Homo sapiens cDNA clone 33126 5'. 280 3e-73 T39355, T39355 ya04g08.rl Homo sapiens cDNA clone 60542 5'. 254 2e-65 AA731264, AA731264 nw57c08.s1 NCI_CGAP GCB1 Homo sapiens cDNA... 220 2e-55 AA768549, AA768549 oa67c07.s1 NCI_CGAP GCB1 Homo sapiens cDNA... 220 2e-55 AA668506, AA668506 ac49a11.s1 Stratagene hNT neuron (#937233)... 216 4e-54 T55337, T55337 yb79b05.s1 Homo sapiens cDNA clone 77361 3'. 198 8e-49 AA860575, AA860575 aj86a09.s1 Soares parathyroid tumor NbHPA ... 198 8e-49 AA335548, AA335548 EST39962 Epididymus Homo sapiens cDNA 5' end 109 6e-22 R13183, R13183 yf73f02.r1 Homo sapiens cDNA clone 27960 5'. 58 2e-06 T80034, T80034 yd04c06.rl Homo sapiens cDNA clone 24672 5'. AA595230, AA595230 nl84g02.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 38 1.8

AA871935, AA871935 vq42h02.r1 Barstead bowel MPLRB9 Mus muscu... 664 0.0 AA062330, AA062330 ml35e10.rl Stratagene mouse testis (#93730... 589 e-167 AI048164, AI048164 ud71b09.yl Sugano mouse liver mlia Mus mus... 537 e-151 W08037, W08037 mb37h01.rl Soares mouse p3NMF19.5 Mus musculus... 462 e-128 AA387311, AA387311 vc19a03.r1 Ko mouse embryo 11 5dpc Mus mus... 264 6e-69 AA163072, AA163072 ms31a11.r1 Stratagene mouse skin (#937313)... 212 2e-53 AA596763, AA596763 vm60a10.r1 Stratagene mouse Tcell 937311 M... 178 3e-43 AA562549, AA562549 vl63a11.rl Knowles Solter mouse blastocyst... 143 2e-32 AA212378, AA212378 mu44c03.r1 Soares 2NbMT Mus musculus cDNA ... 113 1e-23 AA450862, AA450862 vg55h12.r1 Beddington mouse embryonic regi... 111 5e-23 AA990073, AA990073 ua59a01.rl Soares 2NbMT Mus musculus cDNA ... 86 3e-15 AA921175, AA921175 vy54b10.r1 Stratagene mouse lung 937302 Mu... 78 8e-13 AA261119, AA261119 mz89e01.rl Soares mouse NML Mus musculus c... 38 0.65 AI005952, AI005952 ua80f06.rl Soares 2NbMT Mus musculus cDNA ... 36 2.6 AA123274, AA123274 mn23a08.rl Beddington mouse embryonic regi... AI036828, AI036828 vw96c02.rl Stratagene mouse skin (#937313)... 36 2.6

H35787 H35787 EST109178 Rat PC-12 cells, NGF-treated (9 days... 105 3e-21469998 115) AA686082; AA686082 EST109179 Rat PC-12 cells, NGF-treated (9 ... 86 3e-15) (1900) C23464 C23464 Jpanese flounder liver cDNA, LE5(10) 72 4e-11 ©23465, C23465 Jpanese flounder liver cDNA, LE5(10) 56 2e-06 (2) 1650 (3) 1650 (3) AA520085, AA520085 TgESTzz37g05.r1 TgME49 invivo Bradyzoite c... 38 0.57 (1985) and the second secon AA520033, AA520033 TgESTzz36f10.r1 TgME49 invivo Bradyzoite c... 38 0.57 AA012516, AA012516 TgESTzz23f04.rl TgME49cDNA Toxoplasma gond... AA274286, AA274286 TgESTzz24c01.s1 TgME49 invivo Bradyzoite c... 38 0.57 AA660585, AA660585 00471 MtRHE Medicago truncatula cDNA 5' si... 38 0.57 L35828, BNAESTBD Brassica rapa (clone F0621) expressed sequen... 38 0.57 AA520070, AA520070 TgESTzz37e05.rl TgME49 invivo Bradyzoite c... 38 0.57 C30080, C30080 C.elegans cDNA clone yk236c3: 3' end, single... C39044, C39044 C.elegans cDNA clone yk505a4: 3' end, single... C55023, C55023 C.elegans cDNA clone yk422a3: 3' end, single... AA542589, AA542589 fa08d06.s1 Zebrafish ICRFzfls Danio rerio ... N25370, N25370 EST000480 Schistosoma mansoni cDNA clone SMTBA... 36 2.3 AA820625, AA820625 LD24443.5prime LD Drosophila melanogaster ... AA494922, AA494922 fa12g10.rl Zebrafish ICRFzfls Danio rerio ... 36 2.3 AA495181, AA495181 fa04d06.s1 Zebrafish ICRFzfls Danio rerio ... D73287, CELK116G6R C.elegans cDNA clone yk116g6: 3' end, si... 36 2.3 C28238, C28238 Rice cDNA, partial sequence (C60429 1A)

SEQ ID NO:557

AF039693, AF039693 Homo sapiens unknown protein mRNA, complet 948 0.0
S51239, S51239 calreticulin [Aplysia californica=marine snail 56 1e-05
774025 CEE47GO Cooperholditic elegene enemid E47GO en multi-
Z74035, CEF47G9 Caenorhabditis elegans cosmid F47G9, complet 46 0.012
U25723, CPU25723 Cavia porcellus alpha-2B adrenoceptor gene, 44 0.047
AL021407, HS13D10 Homo sapiens DNA sequence from PAC 13D10 o 42 0.19
U67572, U67572 Methanococcus jannaschii section 114 of 150 of 42 0.19
V01470, ZMZE01 Zea mays gene encoding a zein gene (clone lam 42 0.19
U06631, HSU06631 Human (H326) mRNA, complete cds. 42 0.19
X82638, CSCYTOX C.sordelii cytotoxin gene 42 0.19
AE000926, AE000926 Methanobacterium thermoautotrophicum from 42 0.19
AC004135, AC004135 Genomic sequence for Arabidopsis thaliana 42 0.19
AC003010, HUAC003010 Homo sapiens Chromosome 16 BAC clone CIT 40 0.74
AF050157, MMHC135G15 Mus musculus major histocompatibility lo 40 0.74
AC002352, AC002352 Homo sapiens 12q24 PAC P256D10 complete se 40 0.74
X07699, MMNUCLEO Mouse nucleolin gene 40 0.74
X02399, MMHOM6 Mouse embryonal carcinoma DNA fragment contai 40 0.74
M93661, RATNOTCHX Rat notch 2 mRNA. 40 0.74
M17440, MUSMHC4H2S Mouse MHC (H-2) S region complement compon 40 0.74
U15972, MMU15972 Mus musculus homeobox (Hoxa7) gene, complete 40 0.74
AB001601, AB001601 Homo sapiens DBP2 mRNA for ATP-dependent 40 0.74
U09820, HSU09820 Human helicase II (RAD54L) mRNA, complete cds. 40 0.74
AB011149, AB011149 Homo sapiens mRNA for KIAA0577 protein, c 40 0.74
U26259, MMU26259 Mus musculus C2-H2 zinc finger protein mRNA, 40 0.74
L48363, MUSZFPTR Mus musculus zinc finger protein gene, compl 40 0.74
AC003113, AC003113 Arabidopsis thaliana BAC F24O1 chromosome 40 0.74
D76432, D76432 Mouse mRNA for transcriptional repressor delt 40 0.74
U72937, HSU72937 Human putative DNA dependent ATPase and heli 40 0.74
U72915, HSATRX16 Human putative DNA dependent ATPase and heli 40 0.74
U00995, U00995 Rattus norvegicus TA1 mRNA, complete cds. 40 0.74
Z48618, SCCHVII35 S.cerevisiae genes for RAD54, ACE1(CUP2), 40 0.74
U75653, HSU75653 Human zinc finger helicase (Znf-HX) mRNA, co 40 0.74
Z72672, SCYGL150C S.cerevisiae chromosome VII reading frame 40 0.74
Z50109, CEC09H10 Caenorhabditis elegans cosmid C09H10, compl 40 0.74
AF013969, AF013969 Mus musculus antigen containing epitope to 40 0.74
M95627, HUMAAMP1X Homo sapiens angio-associated migratory cel 40 0.74
U72936, HSU72936 Human putative DNA dependent ATPase and heli 40 0.74
M88753, DROHTCHRPI Fruitfly heterochromatin protein-1 gene, c 40 0.74
U76906, REU76906 Rhizobium etli FixK (fixK), FixN (fixN), mon 40 0.74
U97085, HSXNP14 Homo sapiens X-linked nuclear protein (ATRX) 40 0.74
L34363, HUMNUCPRO Human X-linked nuclear protein (XNP) gene, 40 0.74
U72938, HSU72938 Human putative DNA dependent ATPase and heli 40 0.74

HUMAN ESTs

4.

AA639190, AA639190 ns04a01.rl NCI_CGAP_Ewl Homosapiens cDNA ... 519 e-145 AA172199, AA172199 zo96a06.r1 Stratagene ovarian cancer (#937.....513 e-144 R23642, R23642 yh35e03.r1 Homo sapiens cDNA clone 131740/5/201490 e-136 7.4.1 1**3**2.2.1 4 1 AA902270, AA902270 ok69e04.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 450 e-12490 per AA947303; AA947303 ok20d04.s1 Soares_NSF_F8_9W_OT_PA_P_S1 Hom... 402 e-110 AA588066, AA588066 nk10d08.s1 NCI_CGAP_Co2 Homo sapiens cDNA ... 347 1e-93 AA412036, AA412036 zt68d09.s1 Soares testis NHT Homo sapiens ... 347 1e-93 AA480337, AA480337 ne33a03.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 347 1e-93 AA508745, AA508745 ni23a03.s1 NCI_CGAP_Co4 Homo sapiens cDNA ... 347 1e-93 AA172083, AA172083 zo96a06.s1 Stratagene ovarian cancer (#937... 315 4e-84 AA811913, AA811913 ob51d06.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 299 2e-79 AA402403, AA402403 zt68d09.rl Soares testis NHT Homo sapiens ... 299 2e-79 AA725458, AA725458 ai16g01.s1 Soares parathyroid tumor NbHPA ... 250 2e-64 R26558, R26558 yh35e02.s1 Homo sapiens cDNA clone 131738 3'. 250 2e-64 W25749, W25749 11b4 Human retina cDNA randomly primed sublibr... 103 3e-20 W27158, W27158 22h9 Human retina cDNA randomly primed sublibr... AA737681, AA737681 nw63c04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... T65784, T65784 yc11f10.s1 Homo sapiens cDNA clone 80395 3' si... 42 0.090 R52021, R52021 yg84h09.r1 Homo sapiens cDNA clone 40181 5' si... 42 0.090 AA569993, AA569993 nm47h04.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 42 0.090 R50149, R50149 yj61c05.s1 Homo sapiens cDNA clone 153224 3' s... 42 0.090 R87930, R87930 yo47a11.s1 Homo sapiens cDNA clone 181052 3' s... 42 0.090 AA812204, AA812204 ob84f01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 42 0.090 AA770224, AA770224 ah82e12.s1 Soares testis NHT Homo sapiens ... 42 0.090

バ シ ファ/ひゃんひょ

D29591, HUMNK752 Human keratinocyte cDNA, clone 752 40 0.36 AA324325, AA324325 EST27219 Cerebellum II Homo sapiens cDNA 5... AA053063, AA053063 zl71c03.rl Stratagene colon (#937204) Homo... T35539, T35539 EST86964 Homo sapiens cDNA 5' end similar to N... AA974278, AA974278 oq14d03.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 40 0.36 W26196, W26196 22b5 Human retina cDNA randomly primed sublibr... H92585, H92585 yt89c03.s1 Homo sapiens cDNA clone 231460 3'. 40 0.36 AA232334, AA232334 zr27b04.r1 Stratagene NT2 neuronal precurs... 40 0.36 N55775, N55775 J2481F Homo sapiens cDNA clone J2481 5'. 40 0.36 R98701, R98701 yr31f08.s1 Homo sapiens cDNA clone 206919 3'. 40 0.36 C14370, C14370 Human fetal brain cDNA 5'-end GEN-050F01 40 0.36 H19156, H19156 yn50c01 r1 Homo sapiens cDNA clone 171840 5'. 40 0.36 AA299557, AA299557 EST12080 Uterus tumor I Homo sapiens cDNA ... 40 0.36 W84460, W84460 zd89d12.rl Soares fetal heart NbHH19W Homo sap... 40 0.36 T54194, T54194 ya90a02.r2 Homo sapiens cDNA clone 68906 5'. 40 0.36 AA100203, AA100203 zm16f12.r1 Stratagene pancreas (#937208) H... 38 1.4 AA993061, AA993061 ot92h08.s1 Soares_total_fetus_Nb2HF8_9w Ho... 38 1.4 R53406, R53406 yj70d07.r1 Homo sapiens cDNA clone 154093 5' s... 38 1.4 H99671, H99671 yx35b03.s1 Homo sapiens cDNA clone 263693 3'. 38 1.4 W03410, W03410 za07c09.rl Soares melanocyte 2NbHM Homo sapien... 38 1.4 N35475, N35475 yy24b03.s1 Homo sapiens cDNA clone 272141 3. 38 1.4 N66458, N66458 yz41b08.s1 Homo sapiens cDNA clone 285591 3'. 38 1.4 公路海水流 18-05-45%。 AA911761, AA911761 og19b01.s1 NCI_CGAP_PNS1 Homo sapiens cDNA... 3801/41761 AA085513, AA085513 zn43a10.r1 Stratagene HeLa cell s3 937216 ... 38 1.4 AA678530, AA678530 ah02e05.s1 Gessler Wilms tumor Homo sapien... 38 1.4. The charge and A AA782011, AA782011 ai75b12.s1 Soares testis NHT Homo sapiens ... 38 1.4 F12352, HSC38H091 H. sapiens partial cDNA sequence; clone c-... 38 1.4 AA861288, AA861288 ak33g01.s1 Soares testis NHT Homo sapiens ... AA908705, AA908705 ol01b09.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 38 1.4 AA298850, AA298850 EST114450 Thyroid Homo sapiens cDNA 5' end 38 1.4

AA237204, AA237204 mx18d02.r1 Soares mouse NML Mus musculus c... 172 1e-41 AI047347, AI047347 ud65c01.y1 Sugano mouse liver mlia Mus mus... 42 0.032 AA832736, AA832736 vw45g10.r1 Soares mouse mammary gland NbMM... 42 0.032 AA960471, AA960471 vw63a05.s1 Soares mouse mammary gland NMLM... 40 0.13 AA880584, AA880584 vw92e01.r1 Stratagene mouse skin (#937313)... 40 0.13 AA107508, AA107508 mp05e07.r1 Life Tech mouse embryo 8 5dpc 1... 40 0.13 AA116682, AA116682 mn28c06.r1 Beddington mouse embryonic regi... 40 0.13 AA522310, AA522310 vi45b02.r1 Beddington mouse embryonic regi... 40 0.13 AA162231, AA162231 mn44h02.r1 Beddington mouse embryonic regi... 40 0.13

Gira are

AA655241, AA655241 vq84c07.s1 Knowles Solter mouse 2 cell Mus...

AA512835, AA512835 vg13f11.r1 Soares mouse NbMH Mus musculus ... 36 2.0

マヤ ひ ノハリマルリン

1472443

1464

Alexander Same

Miller .

C70525, C70525 C.elegans cDNA clone yk409g6: 5' end, single... 44 0.007 F15112, SSO4D09 S.scrofa mRNA; expressed sequence tag (5'; c... 42 0.029 AA684640, AA684640 EST104989 Rat PC-12 cells, untreated Rattu... H32045, H32045 EST106774 Rat PC-12 cells, untreated Rattus sp... 40 0.11 AA660422, AA660422 00298 MtRHE Medicago truncatula cDNA 5' C59696, C59696 C.elegans cDNA clone yk440e1: 3' end, single... 38 0.45 AI008699, AI008699 EST203150 Normalized rat embryo, Bento Soa... AA753263, AA753263 96BS0294 Rice Immature Seed Lambda ZAPII c... T38461, T38461 EST103957 Saccharomyces cerevisiae cDNA 3' end. C59257, C59257 C.elegans cDNA clone yk386b12:3'end, singl... 38-0.45 AA948906, AA948906 LD27590.5prime LD Drosophila melanogaster ... AI001628, AI001628 EST0210 Tilapia brain cDNA library in pUC1... 38 0.45 H31962, H31962 EST106545 Rat PC-12 cells, untreated Rattus sp... AA979509, AA979509 LD34118.5prime LD Drosophila melanogaster ... 38 0.45 D41274, RICS3647A Rice cDNA, partial sequence (S3647_1A). C58362, C58362 C.elegans cDNA clone yk366a8: 3' end, single... 38 0.45 C57756, C57756 C.elegans cDNA clone yk298b9: 3' end, single... 38 0.45 AA753070, AA753070 97AS2091 Rice Immature Seed Lambda ZAPII c... 38 0.45 38 0.45 H74687, H74687 383 Brassica napus cDNA clone R25R. C10513, C10513 C.elegans cDNA clone yk147e9: 3' end, single... 38 0.45 C55569, C55569 C.elegans cDNA clone yk191d1: 3' end, single... C94819, C94819 Sus scrofa mRNA; expressed sequence tag (5), 38, 0.45 C32982, C32982 C.elegans cDNA clone yk338a12: 3' end, singl: 38, 0.45 AA816691, AA816691 LD03795.5prime LD Drosophila melanogaster 36 1.8 AA519844, AA519844 TgESTzz36c03.rl TgME49 invivo Bradyzoite c. 36 1.8 AA531839, AA531839 TgESTzz47h05.rl TgME49 invivo Bradyzoite care 36 1.8 - 安林() AA660182, AA660182 00022 MtRHE Medicago truncatula cDNA 5' si... D71983, CELK084H2R C.elegans cDNA clone yk84h2: 3' end, sin... 36 1.8 R29905, R29905 12510 Lambda-PRL2 Arabidopsis thaliana cDNA cl... AA519997, AA519997 TgESTzz36h03.rl TgME49 invivo Bradyzoite c... U83048, BTU83048 Bos taurus clone 0429 mRNA sequence AA440655, AA440655 LD15510.5prime LD Drosophila melanogaster ... 36 1.8 AA559374, AA559374 MU002092.NH3 York-Harrop-lung-A Schistosom... C93857, C93857 Dictyostelium discoideum slug cDNA, clone SSL794 36 1.8 AA520901, AA520901 TgESTzz65a05.rl TgME49 invivo Bradyzoite c... 36 1.8 T46158, T46158 9421 Lambda-PRL2 Arabidopsis thaliana cDNA clo... 36 1.8 AA520866, AA520866 TgESTzz68e05.r1 TgME49 invivo Bradyzoite c... Z17562, ATTS0136 A. thaliana transcribed sequence; clone TAT... AA520811, AA520811 TgESTzz64d05.r1 TgME49 invivo Bradyzoite c... AA567455, AA567455 HL01288.5prime HL Drosophila melanogaster ... AA519228, AA519228 TgESTzz39h02.s1 TgME49 invivo Bradyzoite c... AA531917, AA531917 TgESTzz48f01.r1 TgME49 invivo Bradyzoite c... 36 1.8 AA519829, AA519829 TgESTzz36a02.rl TgME49 invivo Bradyzoite c... AA520185, AA520185 TgESTzz39d03.s1 TgME49 invivo Bradyzoite c... 36 1.8 C37095, C37095 C.elegans cDNA clone yk482c11: 3' end, singl... 36 1.8

The state of the state of

But the said

T46009, T46009 9272 Lambda-PRL2 Arabidopsis thaliana cDNA clo... 36 1.8 T20458, T20458 2466 Lambda-PRL2 Arabidopsis thaliana cDNA clo... 36 1.8 F14402, ATTS5324 A. thaliana transcribed sequence; clone TAP... 36 1.8 T20404, T20404 2412 Lambda-PRL2 Arabidopsis thaliana cDNA clo... 36 1.8 AA274295, AA274295 TgESTzz24c11.s1 TgME49 invivo Bradyzoite c... 36 1.8 AA699152, AA699152 HL07807.5prime HL Drosophila melanogaster ... 36 1.8 AA902065, AA902065 NCM1A12T3 Mycelial Neurospora crassa cDNA ... 36 1.8

SEQ ID NO:558

AF016585, AF016585 Streptomyces caelestis cytochrome P-450 hy... U50719, MSU50719 Manduca sexta neuroglian mRNA, complete cds 40 0.36 Z97208, SPAC15A10 S.pombe chromosome I cosmid-c15A10 -40-0.36-AC003063, AC003063 Mus musculus Chromosome 16 BAC Clone b40-o... 40 0.36 X66455, MMFGFR2 M.musculus promoter region of fibroblast gro... 40 0.36 D83785, D83785 Human mRNA for KIAA0200 gene, complete cds 40 0.36 AC000398, AC000398 Genomic sequence from Mouse 11, complete s... 38 1.4. AF062345, AF062345 Caulobacter crescentus Sts1 (sts1), S-laye.... 38, 1.4 X12359, RCNIFR12 Rhodobacter capsulatus nifR1 and nifR2 gene 38.1.4 X72382, RCNIFR3 R capsulatus nifR3 DNA SIN SOLD FOR STATE OF THE STATE TARALLE . and the second s

William A. HUMAN ESTs

R36714, R36714 yh93g06.s1 Homo sapiens cDNA clone 137338 3'. 775 0.0 D61030, HUM149A04B Human fetal brain cDNA 5'-end GEN-149A04. 666 0.0 D60944, HUM141D02B Human fetal brain cDNA 5'-end GEN-141D02. 656 0.0 H03308, H03308 yj47d09.s1 Homo sapiens cDNA clone 151889 3'. 609 e-172 AA435561, AA435561 zt73d09.s1 Soares testis NHT Homo sapiens ... 587 e-166 AA977877, AA977877 oq56d03.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 571 e-161 AA846787, AA846787 aj41h03.s1 Soares testis NHT Homo sapiens ... 563 e-159 AA972542, AA972542 oo82e01.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 561 e-158 AA954270, AA954270 on72e06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 557 e-157 AA740333, AA740333 ob23c02.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 557 e-157 AA999722, AA999722 ov04c06.s1 NCI_CGAP_Kid3 Homo sapiens cDNA... 555 e-156 AA970621, AA970621 op40h08.s1 Soares_NFL_T_GBC_S1 Homo sapien... 551 e-155 AA932930, AA932930 0004g11.s1 Soares_NFL_T_GBC_S1 Homo sapien... 541 e-152 AA725406, AA725406 ai13b11.s1 Soares parathyroid tumor NbHPA ... 539 e-152 W74439, W74439 zd75d10.s1 Soares fetal heart NbHH19W Homo sap... 539 e-152 AA868538, AA868538 ak43e08.s1 Soares testis NHT Homo sapiens ... 539 e-152 R79832, R79832 yi89b08.s1 Homo sapiens cDNA clone 146391 3' s... 537 e-151

R63227, R63227 yi07e06.s1 Homo sapiens cDNA clone 138562 3'. 535 e-150 AI027967, AI027967 ov84d04.x1 Soares_testis_NHT Homo sapiens ... 535 e-150 AA776717, AA776717 ah49d07.s1 Soares testis NHT Homo sapiens ... 535 e-150 AI040961, AI040961 ov53d06.x1 Soares_testis_NHT Homo sapiens ... 533 e-150 AI024835, AI024835 ov35h09.x1 Soares_testis_NHT Homo sapiens ... 533 e-150 AA740667, AA740667 ob01g12.s1 NCI_CGAP_Kid3 Homo sapiens cDNA... 531 e-149 AA994527, AA994527 ou42h06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 531 e-149 AA932728, AA932728 oo31g06.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 529 e-149 AI001978, AI001978 ot39f03.s1 Soares_testis_NHT Homo sapiens ... 529 e-149 N37092, N37092 yy41g08.s1 Homo sapiens cDNA clone 273854 3'. 529 e-149 N27547, N27547 yy01e05.s1 Homo sapiens cDNA clone 269984 3'. 527 e-148 AA883578, AA883578 al46b08.s1 Soares NFL T GBC S1 Homo sapien... 527 e-148 AA890154, AA890154 al53f07.s1 Soares_NFL_T_GBC_S1 Homo sapien... 525 e-147 AA757222, AA757222 ah56f11.s1 Soares testis NHT Homo sapiens ... 525 e-147 AA456074, AA456074 aa17b07.s1 Soares NhHMPu S1 Homo sapiens c... 523 e-147 AA884285, AA884285 am32f04.s1 Soares NFL T GBC S1 Homo sapien... 523 e-147 AA969436, AA969436 op53e12.s1 Soares NFL T GBC S1 Homo sapien... 521 e-146 AA952918, AA952918 on55h11.s1 Soares_NFL_T_GBC_S1 Homo sapien... 521 e-146 AA971938, AA971938 op88b01.s1 Soares_NFL_T_GBC_S1 Homo sapien... 521 e-146 R25112, R25112 yh36b12.s1 Homo sapiens cDNA clone 131807 3'. AA865258, AA865258 og87d08.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 519 e-146 AA758323, AA758323 ah65e11.s1 Soares testis NHT Homo sapiens ... 519 e-146 AA972041, AA972041 op88e06.s1 Soares_NFL_T_GBC_S1 Homo sapien... 519 e-146 R76443, R76443 yi58e11.s1 Homo sapiens cDNA clone 143468 3'. 519 e-146 AA917965, AA917965 om37e04.s1 Soares_NEL_T_GBC_S1 Homo sapien... 517 e-145 AA505880, AA505880 ni01a09.s1 NCI_CGAP_Br2 Homo sapiens cDNA 517 e-145 AA906270, AA906270 oj98e12.s1 Soares_NFL_T_GBC_S1 Homo sapien... 517 e-145 AA758549, AA758549 ah70b04.s1 Soares testis NHT Homo sapiens ... 517 e-145 AA927156, AA927156 om20f05.s1 Soares_NFL_T_GBC_S1 Homo sapien... 515 e-144 AA976254, AA976254 oo30f08.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 515 e-144 R23891, R23891 yh28a12.s1 Homo sapiens cDNA clone 131038 3'. 515 e-144 AA938552, AA938552 oo78g11.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 513 e-144 AA483809, AA483809 ne41c08.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 513 e-144 AA962659, AA962659 or31f10.s1 NCI_CGAP_GC3 Homo sapiens cDNA ... 511 e-143 AA724803, AA724803 ai05f02.s1 Soares parathyroid tumor NbHPA ... 511 e-143 AA410432, AA410432 zv12c09.s1 Soares NhHMPu S1 Homo sapiens c... 511 e-143 AA775373, AA775373 ad19c07.s1 Soares NbHFB Homo sapiens cDNA ... 511 e-143 AA758038, AA758038 ah67h09.s1 Soares testis NHT Homo sapiens ... 509 e-143 AA904368, AA904368 ol15d02.s1 Soares_NFL_T_GBC_S1 Homo sapien... 509 e-143 AA861386, AA861386 ak37b11.s1 Soares testis NHT Homo sapiens ... 507 e-142 R31547, R31547 yh72g03.s1 Homo sapiens cDNA clone 135316 3'. 505 e-141 AA843421, AA843421 ak07f11.s1 Soares parathyroid tumor NbHPA ... 504 e-141 H02479, H02479 yj35e10.s1 Homo sapiens cDNA clone 150762 3'. N29346, N29346 yw85c12.s1 Homo sapiens cDNA clone 259030 3'. 504 e-141 AA815351, AA815351 ai63g05.s1 Soares testis NHT Homo sapiens ... 504 e-141

AA923373, AA923373 ol46e03.s1 Soares_NFL_T_GBC_S1 Homo sapien... 502 e-140 H01218, H01218 yj31c08.s1 Homo sapiens cDNA clone 150350 3'. AA988977, AA988977 or87e11.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 500 e-140 AA628621, AA628621 af40c02.s1 Soares total fetus Nb2HF8 9w Ho... 500 e-140 AA442745, AA442745 zv60a07.s1 Soares testis NHT Homo sapiens ... 498 e-139 AA777492, AA777492 zj02e07.s1 Soares fetal liver spleen 1NFLS... 498 e-139 R73670, R73670 yi55f03.s1 Homo sapiens cDNA clone 143165 3'. 498 e-139 H12460, H12460 yj12d05.s1 Homo sapiens cDNA clone 148521 3'. 498 e-139 AA875917, AA875917 oj15a08.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 496 e-138 R76230, R76230 yi71g11.s1 Homo sapiens cDNA clone 144740_3'. 494_e-138 AA970616, AA970616 op40h03.s1 Soares_NFL_T_GBC_S1 Homo sapien... 494 e-138 AA912408, AA912408 ol23a05.s1 Soares_NFL_T_GBC_S1 Homo sapien... 492 e-137 AA910051, AA910051 ol40e08.s1 Soares_NFL_T_GBC_S1 Homo sapien... 492 e-137 AA815444, AA815444 ai65b11.s1 Soares testis NHT Homo sapiens ... 492 e-137 R76814, R76814 yi62f06.s1 Homo sapiens cDNA clone 143843 3'. 488 e-136 AA954722, AA954722 oo84c12.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 488 e-136 R65987, R65987_yi23e10.s1_Homo-sapiens-cDNA clone-140106-3'. - 486_e-136 R63480, R63480 yi08e11.s1 Homo sapiens cDNA clone 138668 3'. 486 e-136 AA885425, AA885425 am12h09.s1 Soares NFL T GBC S1 Homo sapien... 486 e-136 AA884231, AA884231 am32a01.s1 Soares NFL T GBC S1 Homo sapien... 484 e-135 AA885048, AA885048 am11a12.s1 Soares NFL T GBC S1 Homo sapien... 482 e-134 AA996162, AA996162 os 14f10.s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 482 e-134 AA748637, AA748637, ny10a02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 482 e-134 AI031908, AI031908 ow47e12.x1 Soares_parathyroid_tumor_NbHPA ... 482 e-134 AA884703, AA884703, am18e02.s1 Soares NFL T GBC S1 Homo sapien... 480 e-134 AA928243, AA928243 on 87 ct 0 st Soares_NFL_T_GBC_St Homo sapien... 480 e-134 AI025986, AI025986 ow03a09.s1 Soares_parathyroid_tumor_NbHPA ... 478 e-133 AA897637, AA897637 oj72g07.s1 Soares_NFL_T_GBC_S1 Homo sapien... 472 e-131 AA877346, AA877346 01c07.s1 NCI_CGAP_Co10 Homo sapiens cDNA... 472 e-131 AA833569, AA833569 aj46b02.s1 Soares testis NHT Homo sapiens ... 472 e-131 AA832163, AA832163 oc91b02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 470 e-131 R89052, R89052 ym99e08.s1 Homo sapiens cDNA clone 167078 3'. 470 e-131 N26589, N26589 yx91f03.s1 Homo sapiens cDNA clone 269117 3'. 460 e-128 R73883, R73883 yi56c03.s1 Homo sapiens cDNA clone 143236 3'. 454 e-126 AA579968, AA579968 ng51c03.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 444 e-123 AA843427, AA843427 ak07g06.s1 Soares parathyroid tumor NbHPA ... 438 e-121 AA705903, AA705903 ah42g12.s1 Soares testis NHT Homo sapiens ... 436 e-121 AA835882, AA835882 oc81d05.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 434 e-120 AA812583, AA812583 aj43b02.s1 Soares testis NHT Homo sapiens ... 432 e-119 AA512970, AA512970 nj16b08.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 432 e-119 R26664, R26664 yh35g10.s1 Homo sapiens cDNA clone 131778 3'. 428 e-118 AA429715, AA429715 zv60a07.rl Soares testis NHT Homo sapiens ... 414 e-114 H17430, H17430 ym40f09.s1 Homo sapiens cDNA clone 50607 3'. 404 e-111 AA436117, AA436117 zu03d10.rl Soares testis NHT Homo sapiens ... 402 e-110 AA099077, AA099077 zl77a09.s1 Stratagene colon (#937204) Homo... 400 e-110

- Nation

```
R72440, R72440 yj90h02.s1 Homo sapiens cDNA clone 156051 3'.
                                                                   379 e-103
      AA577436, AA577436 nm96h06.s1 NCI_CGAP_Co9 Homo sapiens cDNA ... 351 4e-95
      AA516390, AA516390 nf55e03.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 347 6e-94
      AA534533, AA534533 nf80h06.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 341 3e-92
      AA541583, AA541583 ni89f05.s1 NCI_CGAP_Pr21 Homo sapiens cDNA... 311 3e-83
      N72191, N72191 yz99f07.s1 Homo sapiens cDNA clone 291205 3'.
                                                                   303 8e-81
      AA905015, AA905015 ok09b08.s1 Soares_NFL_T_GBC_S1 Homo sapien... 303 8e-81
      AA393148, AA393148 zt73d09.r1 Soares testis NHT Homo sapiens ... 287 4e-76
      AA939048, AA939048 op56h04.s1 Soares_NFL_T_GBC_S1 Homo sapien... 256 2e-66
      AA412317, AA412317 zt97c05.r1 Soares testis NHT Homo sapiens ... 246 2e-63
      R65986, R65986 yi23e10.rl Homo sapiens cDNA clone 140106 5'.
                                                                   238 4e-61
      AA400827, AA400827 zt76c07.s1 Soares testis NHT Homo sapiens ...
                                                                    232 2e-59
      W00472, W00472 yz99f07.rl Homo sapiens cDNA clone 291205 5'.
      AA860558, AA860558 aj81e09.s1 Soares parathyroid tumor NbHPA ... 180 8e-44
      AA455577, AA455577 aa17b07.r1 Soares NhHMPu S1 Homo sapiens c... 176 1e-42
      AA583931, AA583931 nn64e04.s1 NCI_CGAP_Lar1 Homo sapiens cDNA... 172 2e-41
      AA907332, AA907332 ol22g11.s1 Soares_NFL_T_GBC_S1 Homo sapien... 168 3e-40
      R71169, R71169 yi53a12.r1 Homo sapiens cDNA clone 142942 5'. 159 3e-37
      W79084, W79084 zd75d10.r1 Soares fetal heart NbHH19W Homo sap... 155 4e-36
     AA295914, AA295914 EST101137 Thymus III Homo sapiens cDNA 5' end 135 4e-30
      AA860415, AA860415 aj60d10.s1 Soares testis NHT Homo sapiens ... 100 2e-19
    -H01351, H01351 yi99a07.rl Homo sapiens cDNA clone 147348 5'.
                                                                    98 9e-19
AA709286, AA709286 ai21g07.s1 Soares testis NHT Homo sapiens ...
                                                                    96 3e-18: A 169285. A 1
AA931370, AA931370 oo03d01.s1 Soares_NFL_T_GBC_S1 Homo sapien... 96-3e-18:00
   AA501911, AA501911 ng54a08.s1 NCI_CGAP_Li2 Homo sapiens cDNA ... 94.degides and sapiens cDNA ...
AA548419; AA548419 nj14g09.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 92.5e/17/4904
    AA588892, AA588892 no23b06.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 92 5e-17
      AI025228, AI025228 ov40h08.x1 Soares_testis_NHT Homo sapiens ...
                                                                     76 3e-12
      R73757, R73757 yi55f03.r1 Homo sapiens cDNA clone 143165 5'.
                                                                    74 le-11
      R23710, R23710 yh35g10.rl Homo sapiens cDNA clone 131778 5'.
                                                                    56 3e-06
      N40362, N40362 yy01e05.rl Homo sapiens cDNA clone 269984 5'.
                                                                    50 2e-04
      H59895, H59895 yr04c12.rl Homo sapiens cDNA clone 204310 5'.
                                                                    48 7e-04
      H12509, H12509 yj12d05.rl Homo sapiens cDNA clone 148521 5'.
                                                                    44 0.011
      N20344, N20344 yx38d02.s1 Homo sapiens cDNA clone 264003 3'.
                                                                     38 0.70
      AA614692, AA614692 np52b10.s1 NCI_CGAP_Br1.1 Homo sapiens cDN... 38 0.70
      H30707, H30707 yo78f07.r1 Homo sapiens cDNA clone 184069 5'.
                                                                    36 2.7
      H52973, H52973 yq82e04.rl Homo sapiens cDNA clone 202302 5'.
                                                                    36 2.7
      AA218550, AA218550 zq96b02.r1 Stratagene NT2 neuronal precurs...
                                                                    36 2.7
      AA312481, AA312481 EST183215 Jurkat T-cells VI Homo sapiens c...
                                                                     36 2.7
      AA632009, AA632009 np74c07.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 36 2.7
      H13363, H13363 yl71b10.r1 Homo sapiens cDNA clone 43343 5'.
                                                                    36 2.7
      AI022018, AI022018 ow64d01.x1 Soares senescent fibroblasts Nb...
                                                                    36 2.7
      AA781996, AA781996 ai75a06.s1 Soares testis NHT Homo sapiens ...
      N21623, N21623 yx60a09.s1 Homo sapiens cDNA clone 266104 3'.
      AA326194, AA326194 EST29340 Cerebellum II Homo sapiens cDNA 5... 36 2.7
```

C76071, C76071 Mus musculus 3.5-dpc blastocyst cDNA 3'-end s... 250 4e-65 AA051612, AA051612 mj52c07.rl Soares mouse embryo NbME13.5 14... 238 1e-61 AA561635, AA561635 vl01h07.r1 Knowles Solter mouse blastocyst.... 234 2e-60 AA288419, AA288419 vb14h01.rl Soares mouse NML Mus musculus c... 220 3e-56 AA212883, AA212883 mw78e10.rl Soares mouse NML Mus musculus c... 220 3e-56 AA268018, AA268018 vb08e07.r1 Soares mouse NML Mus musculus c... 212 8e-54 AA692427, AA692427 vt59b07.r1 Barstead mouse irradiated colon... 200 3e-50 W18566, W18566 mb98h02.rl Soares mouse p3NMF19.5 Mus musculus... 192 7e-48 AA543948, AA543948 vj69b08.rl Knowles Solter mouse blastocyst... 147 4e-34 W41070, W41070 mc39b06.rl Soares mouse p3NMF19.5 Mus musculus... 123 5e-27 Z31174, MMTEST52 M.musculus expressed sequence tag MTEST52 117 3e-25 AA530723, AA530723 vj32f07.rl Stratagene mouse diaphragm (#93... AA966940, AA966940 ua38c01.rl Soares mouse mammary gland NbMM... AA111079, AA111079 mp50e01.rl Barstead MPLRB1 Mus musculus cD... AA049187, AA049187 mj51a02.rl Soares mouse embryo NbME13.5 14... 36 0.99 AA058246, AA058246 mg74e12.rl Soares mouse embryo NbME13.5 14... AA153730, AA153730 mq60a02.rl Soares 2NbMT Mus musculus cDNA ... AA473959, AA473959 vd02b12.s1 Knowles Solter mouse 2 cell Mus... 36 0.99 W47887, W47887 mc83h09.r1 Soares mouse embryo NbME13.5 14.5 M... 36 0.99 AA033312, AA033312 mi43g01.rl Soares mouse embryo NbME13.5 14... 36 0.99 AA980820, AA980820 ua46a04.rl Soares mouse manimary gland NbMM... Z31139, MMTEST427 M.musculus expressed sequence tag MTEST427 36 0.99 C76637, C76637 Mus musculus 3.5-dpc blastocyst cDNA3 end s... 34 3.9 可多場合 アファイル AI049314, AI049314 uc87b10.y1 Sugano mouse kidney mkia Mus mu... AA670807, AA670807 vs70b02.rl Stratagene mouse skin (#937313)... 34 3.9 AA727571, AA727571 vv01h11.rl Stratagene mouse skin (#937313)... 34 3.9 AA571966, AA571966 vg12f07.rl Soares mouse NbMH Mus musculus ... W37059, W37059 mb73f10.rl Soares mouse p3NMF19.5 Mus musculus... AA760280, AA760280 vv74h11.r1 Stratagene mouse skin (#937313)... AA799036, AA799036 vn40c12.rl Stratagene mouse skin (#937313)... AA432831, AA432831 vf28g07 r1 Knowles Solter mouse 8 cell Mus... 34 3.9 AA562435, AA562435 vk98c01.rl Knowles Solter mouse blastocyst... AA726680, AA726680 vu93g12.r1 Stratagene mouse skin (#937313)... AA217464, AA217464 mu87d11.rl Soares mouse lymph node NbMLN M... AA790564, AA790564 vx71e06.rl Stratagene mouse skin (#937313)... AA033172, AA033172 mi37f06.rl Soares mouse embryo NbME13.5 14... 34 3.9 AA616204, AA616204 vo96h02.rl Soares mouse mammary gland NbMM... AA982055, AA982055 ua37h05.rl Soares mouse mammary gland NbMM... W47850, W47850 mc82h10.rl Soares mouse embryo NbME13.5 14.5 M... 34 3.9 AA537538, AA537538 vk48c12.rl Soares mouse mammary gland NbMM... AA636986, AA636986 vn05f04.r1 Knowles Solter mouse blastocyst... 34 3.9

AI043768, AI043768 UI-R-C0-jm-d-11-0-UI.s1 UI-R-C0 Rattus nor... 174 1e-42 AA531635, AA531635 TgESTzz29b08.rl TgME49 invivo Bradyzoite c... 38 0.22 AA944260, AA944260 EST199759 Normalized rat embryo, Bento Soa... 38 0.22 AI008930, AI008930 EST203381 Normalized rat embryo, Bento Soa... D15788, RICC1258A Rice cDNA, partial sequence (C1258A). 36 0.87 AA963741, AA963741 UI-R-C0-gt-b-09-0-UI.s1 UI-R-C0 Rattus nor... 36 0.87 AA951235, AA951235 LD31601.3prime LD Drosophila melanogaster ... C20118, C20118 Rice cDNA, partial sequence (E11542 2A) AA820317, AA820317 LD23876.5prime LD Drosophila melanogaster ... AA950448, AA950448 LD30237.3prime LD Drosophila melanogaster ...

SEQ ID NO:559

U83883, RNU83883 Rattus norvegicus p105 coactivator mRNA, com... 42 0.11 V00722, MMBGL1 Mouse gene for beta-1-globin. X14061, MMBGCXD M.musculus beta-globin complex DNA for y, bh... 40 0.45 U20824, EHVU20824 Equine herpesvirus 2, complete genome 38 1.8 1. 1.06240 TANKY C. Z.W. U04106, PFU04106 Pleurotus fossulatus D1822, mating group VI,... 38 1.8 一种的数学和多数的概念 U04101, POU04101 Pleurotus ostreatus D1742, Japan, mating gro... 38 1.8 了。 一种种种的数字相似的 AC0051745AC005174 Homo sapiens clone UWGC:g1564a012 from 7p1... 38 1.8 的数据数据数据数据 M18680, HUMRGAPS Homo sapiens 5S rRNA pseudogene. 38 1.8 在 经确保销售额目的资源 AL022121, MTV025 Mycobacterium tuberculosis H37Rv complete g... 38 1.8 人 建铁铁 南京南京文 AF038379, AF038379 Leishmania amazonensis ribosomal protein S... Z11528, THIGPMR T.harzianum mRNA for imidazoleglycerolphosphate 38 1.8 U32622, CTU32622 Comamonas testosteroni TsaR (tsaR), toluenes... U04102, POU04102 Pleurotus ostreatus D1743, Japan, mating gro... U04105, PFU04105 Pleurotus fossulatus D1821, mating group VI.... U04109, PEU04109 Pleurotus eryngii D1832, mating group VI rib... U65606, BSU65606 Basidiomycete from a bamboo (Phyllostachys p... 38 1.8

Barrier Broker

HUMAN ESTs

R49969, R49969 yj56c07.s1 Homo sapiens cDNA clone 152748 3' s... 523 e-147 AA834501, AA834501 of21c02.s1 NCI_CGAP_Kid6 Homo sapiens cDNA... 381 e-104 W96422, W96422 ze43a05.s1 Soares retina N2b4HR Homo sapiens c... 315 2e-84 R47821, R47821 yj56c07.rl Homo sapiens cDNA clone 152748 5'. AA761660, AA761660 nz24b09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 212 3e-53 AA887861, AA887861 nq99b07.s1 NCI_CGAP Co10 Homo sapiens cDNA... 74 2e-11 AA644044, AA644044 nm20b12.s1 NCI_CGAP_Co10 Homo sapiens cDNA...

AA115963, AA115963 zm78d11.s1 Stratagene neuroepithelium (#93... 40 0.22 AA779271, AA779271 zj43f02.s1 Soares fetal liver spleen 1NFLS... 40 0.22 T65600, T65600 yc76a04.rl Homo sapiens cDNA clone 21496 5'. 38 0.86 AA515882, AA515882 nf67f10.s1 NCI CGAP Co3 Homo sapiens cDNA ... 38 0.86 AA664812, AA664812 nu69b05.s1 NCI CGAP Alv1 Homo sapiens cDNA... 36 3.4 T83365, T83365 ye03f05.s1 Homo sapiens cDNA clone 116673 3'. 36 3.4 AA009773, AA009773 zi04d04.s1 Soares fetal liver spleen 1NFLS... 36 3.4 AA916894, AA916894 og34g10.s1 NCI CGAP Br7 Homo sapiens cDNA ... 36 3.4 N27865, N27865 yy02g03.s1 Homo sapiens cDNA clone 270100 3'. AA953544, AA953544 om79g06.s1 NCI CGAP Kid3 Homo sapiens cDNA... AA505576, AA505576 nh93f03.s1 NCI CGAP Br2 Homo sapiens cDNA ... 36 3.4 H30276, H30276 yp42f05.s1 Homo sapiens cDNA clone 190113 3'. 36 3.4 AA699914, AA699914 zi61f08.s1 Soares fetal liver spleen 1NFLS... 36 3.4 AA595583, AA595583 nk92c04.s1 NCI CGAP Coll Homo sapiens cDNA... 36 3.4 AA351139, AA351139 EST58769 Infant brain Homo sapiens cDNA 5'... 36 3.4 AA810167, AA810167 ob88a03.s1 NCI CGAP GCB1 Homo sapiens cDNA... 36 3.4 H50257, H50257 yo28a07.rl Homo sapiens cDNA clone 179220 5'. W19939, W19939 zb37e09.rl Soares parathyroid tumor NbHPA Homo... 36 3.4 R19840, R19840 yg30e11.rl Homo sapiens cDNA clone 33837 5'. AA514234, AA514234 nf56e10.s1 NCI_CGAP_Co3 Homo sapiens cDNA ... 36 3.4

Control References to the William Control

The state of the s

The same of the first and the same

· 1000 新教育教育教育教育教育

AA183407, AA183407 ms AA821640, AA821640 vw AA289310, AA289310

14.18 30 30 30

一个数数的 一个

1.50

Party See

ママ 👽 ツァ/ひずんひろ

AA900756, AA900756 UI-R-E0-di-d-04-0-UI.s1 UI-R-E0 Rattus nor... 46 0.001 T18416, T18416 6c02e07t7 etiolated seedling Zea mays cDNA clo... 40 0.069 AA817427, AA817427 LD22827.5prime LD Drosophila melanogaster ... 36 1.1 AA274351, AA274351 TgESTzz25c09.s1 TgME49 invivo Bradyzoite c... 36 1.1 AA391823, AA391823 LD10747.5prime LD Drosophila melanogaster ... 36 1.1 AA274275, AA274275 TgESTzz24b02.s1 TgME49 invivo Bradyzoite c... 34 4.3 R86490, R86490 RABEST068T Oryctolagus cuniculus cDNA clone pR... 34 4.3 AA965817, AA965817 o5g08a1.r1 Aspergillus nidulans 24hr asexu... 34 4.3

SEQ ID NO:560

Z50028, X72735, U13072, Z34294, AB002109, X68401, M92840, D88399, Z36238, AF000262, Z46828,

HUMAN ESTs

** U ///U=#UJ

AA215808, AA215808 zr98b10.rl NCI_CGAP_GCB1 Homo sapiens cDNA... 1082 0.0 N75131, N75131 yz29g07.rl Soares multiple sclerosis 2NbHMSP H... 989 0.0 AA709149, AA709149 zf98g05.s1 Soares fetal heart NbHH19W Homo... 985 0.0 AA428341, AA428341 zw18f09.s1 Soares ovary tumor NbHOT Homo s... 967 0.0 AA043426, AA043426 zk54h09.rl Soares pregnant uterus NbHPU Ho... 870 0.0 AA878521, AA878521 oj19c01.s1 NCI_CGAP_Kid5 Homo sapiens cDNA... 844 0.0 AA599696, AA599696 ag10h01.s1 Gessler Wilms tumor Homo sapien... 842 0.0 W52304, W52304 zc47c08.rl Soares senescent fibroblasts NbHSF ... 841 0.0 AA043427, AA043427 zk54h09.s1 Soares pregnant uterus NbHPU Ho... 769 0.0 N64314, N64314 yz46a12.s1 Homo sapiens cDNA clone 286078 3'. N52360, N52360 yz29g07.s1 Soares multiple sclerosis 2NbHMSP H... 753 0.0 AA290863, AA290863 zt19a08.s1 Soares ovary tumor NbHOT Homo s... 747 0.0 AA768023, AA768023 oa60e03.s1 NCI_CGAP GCB1 Homo sapiens cDNA... 728 0.0 AA872018, AA872018 oi05f08.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 718 0.0 AA164765, AA164765 zp01g09.s1 Stratagene ovarian cancer (#937... 716 0.0 AA814881, AA814881 oa75e02.sl-NCI_CGAP_GCB1 Homo sapiens cDNA... 708_0.0 R86915, R86915 yq30f07.r1 Homó sapiens cDNA clone 197317 5'. W56703, W56703 zd14e01.rl Soares fetal heart NbHH19W Homo sap... 642 0.0 R84872, R84872 yq27e01.r1 Soares fetal liver spleen 1NFLS Hom.... 636 0.0 D79691, HUM307D10B Human aorta cDNA 5'-end GEN-307D10. 630 e-179 AA025638, AA025638 ze90d11.s1 Soares fetal heart NbHH19W Homo... 626 e-178 AA298883, AA298883 EST114512 Pancreas tumor I Homo sapiens cD... 624 e-177 R86903, R86903 yq30d07.r1 Homo sapiens cDNA clone 197293 5'. AA033584, AA033584 zk21b12.s1 Soares pregnant uterus NbHPU Ho... 618 e-175 AA633335, AA633335 nq58h09.s1 NCI_CGAP_Co9 Homo sapiens cDNA ... 611 e-173 AA298894, AA298894 EST114513 Pancreas tumor I Homo sapiens cD... 599 e-169 R85806, R85806 yq27e01.s1 Soares fetal liver spleen 1NFLS Hom... 595 e-168 AA872617, AA872617 oi05g07.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 591 e-167 H71458, H71458 yu71a06.sl Homo sapiens cDNA clone 239218 3'. 587 e-166 AA291045, AA291045 zt19a08.rl Soares ovary tumor NbHOT Homo s... 563 e-159 H71587, H71587 yu71a06.rl Homo sapiens cDNA clone 239218 5'. 543 e-153 AA035172, AA035172 zk28g05.s1 Soares pregnant uterus NbHPU Ho... 523 e-147 AA164764, AA164764 zp01g09.rl Stratagene ovarian cancer (#937... 517 e-145 AA297001, AA297001 EST112550 Adipose tissue, white II Homo sa... 502 e-140 AA296816, AA296816 EST112381 Aorta endothelial cells Homo sap... 500 e-139 AA769090, AA769090 oa74e12.s1 NCI_CGAP GCB1 Homo sapiens cDNA... 494 e-138 H54447, H54447 yq91f04.s1 Homo sapiens cDNA clone 203167 3'. 438 e-121 H54537, H54537 yq91f04.r1 Homo sapiens cDNA clone 203167 5'. 436 e-120 AI049757, AI049757 an26g03.x1 Gessler Wilms tumor Homo sapien... 430 e-119

しょし シンノリエマリィン

· - 45 \\

すすひ シンパリマムリス

AA033583, AA033583 zk21b12.r1 Soares pregnant uterus NbHPU Ho... 422 e-116 D61748, HUM205G02B Human aorta cDNA 5'-end GEN-205G02. 412 e-113 AA148635, AA148635 zl26d10.rl Soares pregnant uterus NbHPU Ho... 377 e-102 AA148636, AA148636 zl26d10.sl Soares pregnant uterus NbHPU Ho... 373 e-101 AA025637, AA025637 ze90d11.rl Soares fetal heart NbHH19W Homo... 371 e-101 AA932620, AA932620 oo61h04.s1 NCI CGAP Lu5 Homo sapiens cDNA ... 365 4e-99 AA385594, AA385594 EST99296 Thyroid Homo sapiens cDNA 5' end AA361957, AA361957 EST71295 T-cell lymphoma Homo sapiens cDNA... 289 2e-76 AA383998, AA383998 EST97483 Thyroid Homo sapiens cDNA 5' end ... 274 1e-71 H22175, H22175 yl38a03.rl Homo sapiens cDNA clone 160492 5'. R50060, R50060 yj59c10.rl Homo sapiens cDNA clone 153042 5'. 256 3e-66 AA229414, AA229414 nc47f12.rl NCI_CGAP_Pr3 Homo sapiens cDNA ... 246 3e-63 D20466, HUMGS01440 Human HL60 3'directed MboI cDNA, HUMGS014... 208 6e-52 AA249061, AA249061 114438.seq.F Human fetal heart, Lambda ZAP... 168 5e-40 R86758, R86758 yq30f07.s1 Homo sapiens cDNA clone 197317 3'. 147 2e-33 R58025, R58025 F8018 Fetal heart Homo sapiens cDNA clone F801... 101 1e-19 AA371076, AA371076 EST82846 Prostate gland I Homo sapiens cDN... 42 0.081 AA977111, AA977111 oq24c03.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 40 0.32 AA608923, AA608923 af03b04.s1 Soares testis NHT Homo sapiens ... 38 1.3

and the second s

gb|AA386999|AA386999 wc81b02 r1 Ko mouse embryo 11 5dpc Mus mus... 668 0.0 gb|AA589082|AA589082|vk24a08r1 Knowles Solter mouse blastocyst... 658 0.0 gb|AA510881|AA510881| wh59ell it Soares mouse mammary gland NbMM... 617 e-175 gb|AA763574|AA763574 vp07e08 r1 Soares mouse mammary gland NbMM... 615 e-174 gb|AA387423|AA387423 vc84b03.r1 Ko mouse embryo 11 5dpc Mus mus... 549 e-155 gb|AA915333|AA915333 vz28f05.r1 Soares 2NbMT Mus musculus cDNA ... 543 e-153 gb|AA816208|AA816208 vp43c10.rl Barstead mouse irradiated colon... 444 e-123 gb|AA190043|AA190043 mt91h08.rl Soares mouse lymph node NbMLN M... 424 e-117 gb|AA207393|AA207393 mv89c09.rl GuayWoodford Beier mouse kidney... 394 e-108 emb|Z31258|MMTEST693 M.musculus expressed sequence tag MTEST693 309 8e-83 gb|AA930143|AA930143 vz52d11.s1 Soares 2NbMT Mus musculus cDNA ... 293 5e-78 gb|AA170612|AA170612 ms92c09.r1 Soares mouse 3NbMS Mus musculus... 287 3e-76 gb|AA762238|AA762238 vw58h02.r1 Soares mouse mammary gland NMLM... 266 1e-69 gb|AA689028|AA689028 vs02c12.r1 Barstead mouse irradiated colon... 264 4e-69 gb|AA959938|AA959938 vw58h02.s1 Soares mouse mammary gland NMLM... 240 6e-62 dbi|D18511|MUSGS01569 Mouse 3'-directed cDNA, MUSGS01569, clon... 172 1e-41 gb|AA474393|AA474393 vd57g07.r1 Knowles Solter mouse blastocyst... 100 1e-19 gb|W97165|W97165 mf90g05.r1 Soares mouse embryo NbME13.5 14.5 M... 74 8e-12 gb|AA512077|AA512077 vj43f05.r1 Stratagene mouse skin (#937313)... 62 3e-08 gb|AA794521|AA794521 vu68e07.r1 Stratagene mouse skin (#937313)... 54 8e-06 gb|AA155454|AA155454 mn38h12.r1 Beddington mouse embryonic regi... 48 5e-04 gb|W91000|W91000 mf83f06.r1 Soares mouse embryo NbME13.5 14.5 M... 40 0.12

ing a state of

30 15 April 10

75.00 生物學學學學學學

TO SEE MERCANIS

```
gb|AA219917|AA219917 mv62f05.r1 Soares mouse 3NME12 5 Mus muscu...
gb|AA529349|AA529349 vi35f08.rl Beddington mouse embryonic regi... 36 1.8
gb|AA754855|AA754855 vu51e08.rl Soares mouse mammary gland NbMM... 36 1.8
```

```
gb|AA850379|AA850379 EST193146 Normalized rat ovary, Bento Soar... 569 e-161
     gb|W63375|W63375 TgESTzy68g02.rl TgME49 Tachyzoite cDNA Toxopla... 394 e-108
     gb|AA946379|AA946379 EST201878 Normalized rat lung, Bento Soare... 353 5e-96
     gb|AA964427|AA964427 UI-R-E1-gp-a-08-0-UI.s1 UI-R-E1 Rattus nor... 335 1e-90
     gb|AA849599|AA849599 EST192366 Normalized rat muscle, Bento Soa... 307 3e-82
     gb|AA849595|AA849595 EST192362 Normalized rat muscle, Bento Soa... 307 3e-82
     gb|AA850378|AA850378 EST193145 Normalized rat ovary, Bento Soar... 278 3e-73
     gb|AA957389|AA957389 UI-R-E1-fu-b-04-0-UI.s1 UI-R-E1 Rattus nor... 157 6e-37
     gb|AI012981|AI012981 EST207432 Normalized rat spleen, Bento Soa... 147 6e-34
     dbj|C48357|C48357 C.elegans cDNA clone yk469b2 : 5' end, single... 40 0.10
     gb|AA440444|AA440444 LD15290.5prime LD Drosophila melanogaster ... 36 1.6
     dbj|C22690|C22690 Rice cDNA, partial sequence (S5274_4A) 36_1.6
     gb|AA697626|AA697626 HL02895.5prime HL Drosophila melanogaster ...
     gb|AA550136|AA550136 1244m3 gmbPfHB3.1, G. Roman Reddy Plasmodi... 36 1.6
     gb|T43579|T43579 6842 Lambda-PRL2 Arabidopsis thaliana cDNA clo... 36 1.6
    gb|AI030501|AI030501 UI-R-C0-jc-g-02-0-UI.s1 UI-R-C0 Rattus nor... 36 1.6
   gb|AA056876|AA056876 SWMFCA987SK Brugia malayi microfilaria cDN.... 36 46 30 68 40 50
    gb AA440689 AA440689 LD15550.5prime LD Drosophila melanogaster ... 36 166 (1966)
  學於透過的觀查的,但可
                           3 pt ... ...
                                                                    17.10克尔克克斯基·加拉斯克
```

24、截截

Stranger Commence

SEO ID NO:561

(1) 与10 的复数**数数数数数**多数多数

マ゙ ひ ノン/ひてんひご

emb|Z47552|HSFMO3 H.sapiens mRNA for flavin-containing monooxyg... 44 0.10 gb|U39966|HSFMO3G7 Homo sapiens flavin containing monooxygenase... 44 0.10 emb|AL021026|HS127D3 Homo sapiens DNA sequence from PAC 127D3 o... 44 0.10 gb|U35007|CPU35007 Carcharhinus plumbeus Ig lambda light chain ... 44 0.10 gb|U35008|CPU35008 Carcharhinus plumbeus Ig lambda light chain ... dbj|D85068|RICT3A Rice transposable element T3 gene and ret... 42 0.40 dbj|D63711|RICT3 Rice transposon T3 DNA, complete sequence 42 0.40 gb|U01657|U01657 Carcharhinus plumbeus Ig lambda-chain gene, co... 42 0.40 emb|Z92540|HS179I15A Human DNA sequence from PAC 179I15, BRCA2 ... 40 1.6 dbj|AB001569|AB001569 Carrot DNA for transposon Tdc1 gb|AE000613|HPAE000613 Helicobacter pylori section 91 of 134 of... 40 1.6 emb|X07985|DMCUT Drosophila cut locus mRNA for homeodomain-cont... 40 1.6 gb|AC005217|AC005217 Homo sapiens chromosome 5, P1 clone 1047D6... 40 1.6

gb|AA401219|AA401219 zv63a03.r1 Soares total fetus Nb2HF8 9w Ho... 993 0.0 gb|H69371|H69371 yu19h09.r1 Homo sapiens cDNA clone 234305 5' s... 44 0.049 gb|N62576|N62576 za13d10.s1 Homo sapiens cDNA clone 292435 3' s... 42 0.19 gb|W77763|W77763 zd69c06.rl Soares fetal heart NbHH19W Homo sap... 40 0.77 gb|R14832|R14832 yf93g05.r1 Homo sapiens cDNA clone 30203 5'. 40 0.77 gb|T90524|T90524 yd40a04.s1 Homo sapiens cDNA clone 110670 3' s... 38 3.0 gb|R91887|R91887 yq04c09.r1 Homo sapiens cDNA clone 195952 5'. 38 3.0 gb|AA586935|AA586935 nn68h03.s1 NCI_CGAP_Lar1 Homo sapiens cDNA... 38 3.0 gb|T46987|T46987 yb12a07.s1 Homo sapiens cDNA clone 70932 3' co... 38 3.0 gb|AA853975|AA853975 aj51f09.s1 Soares testis NHT Homo sapiens ... 38 3.0 gb|T97059|T97059 ye50e01.rl Homo sapiens cDNA clone 121176 5'. 38 3.0 gb|AA883119|AA883119 am15h02.s1 Soares NFL T GBC S1 Homo sapien... 38 3.0 gb|AA860074|AA860074 ak45b06.s1 Soares testis NHT Homo sapiens ... gb|AA889618|AA889618 ak28f06.s1 Soares testis NHT Homo sapiens ...

gb|AA230450|AA230450 mv73c06.r1 Soares mouse 3NME12 5 Mus muscu... 38 1.1 gb|AA058041|AA058041 mj58e08.r1 Soares mouse embryo NbME13.5 14... 38 1.1 gb|AA152953|AA152953 mq54a03.r1 Soares 2NbMT Mus musculus cDNA ... 38 1.1 38.39b|W34414|W34414 ma98b07.r1 Soares mouse p3NMF19.5 Mus musculus... 38.31p1-334.414 - 任 gb|AA465969|AA465969 ve90c06.s1 Knowles Solter mouse 2 cell Mus... 38日45年485年 gb|AA261173|AA261173 mz62b11.rl Soares mouse lymph node NbMLN M.... 38 1.1.26 1.75 28 444.238109|AA238109|AA238109|mw97b05.r1 Soares mouse NML Mus musculus c... 38 444.238 (1995) gb|AI048677|AI048677 ub29g09.r1 Soares 2NbMT Mus musculus cDNA ... 38 1.14994, 6.41 dbi|D77921|MUSC1A08 Mouse embryonal carcinoma F9 cell cDNA, C1A08 38 1.1 gb|AA396183|AA396183 vb45e04.rl Soares mouse lymph node NbMLN M... gb|AA465898|AA465898 vc62f12.s1 Knowles Solter mouse 2 cell Mus... 36 4.3 gb|AA041869|AA041869 mj05b12.r1 Soares mouse embryo NbME13.5 14... gb|AA637824|AA637824 vr21f11.r1 Barstead mouse myotubes MPLRB5 ... gb|W82563|W82563 mf05g06.r1 Soares mouse p3NMF19.5 Mus musculus... 36 4.3 gb|AA389972|AA389972 vb30e03.r1 Soares mouse lymph node NbMLN M... 36 4.3 gblAA396253|AA396253| vb45f08.rl Soares mouse lymph node NbMLN M... gb|AA920907|AA920907 vy84f04.r1 Stratagene mouse macrophage (#9... 36 4.3 gb|AA517166|AA517166 vh98h05.rl Barstead mouse myotubes MPLRB5 ... 36 4.3 gb|AA433599|AA433599 vf47a05.r1 Soares mouse NbMH Mus musculus ... 36 4.3 gb|AA867252|AA867252 vx25c01.r1 Soares 2NbMT Mus musculus cDNA ... dbi|C85619|C85619 Mus musculus fertilized egg cDNA 3'-end seque... 36 4.3 gb|AA260277|AA260277 va93g05.r1 Soares mouse 3NME12 5 Mus muscu... 36 4.3 gb|AA172548|AA172548 mt04g11.rl Soares mouse 3NbMS Mus musculus... gb|AA266879|AA266879 mz96a02.r1 Soares mouse lymph node NbMLN M... gb|AA473019|AA473019 vd43e06.r1 Barstead MPLRB1 Mus musculus cD... 36 4.3

gb R47549 R47549 SW3ICA119SK Brugia malayi infective larva cDNA 40 0.24
gb H32651 H32651 EST107947 Rat PC-12 cells, untreated Rattus sp. 38 0.06
gb AA955987 AA955987 UI-R-E1-fb-f-06-0-UI.s1 UI-R-E1 Rattus por 38 0 06
gb AA819638 AA819638 UI-R-A0-an-f-03-0-UI.s1 UI-R-A0 Rattus por 38, 0.06
gb A1010914 A1010914 EST205365 Normalized rat muscle, Bento Soa 38 0 06
gb AA893199 AA893199 EST197002 Normalized rat kidney, Bento Soa 38, 0.06
gb AA945176 AA945176 EST200675 Normalized rat liver. Bento Soar 38, 0, 06
gb R95272 R95272 SWOvL3CA167SK Onchocerca volvulus infective la 36,3 8
gb AA917208 AA917208 ka05f02.s1 Onchocerca volvulus infective 1 36.3.8
dbj C62023 C62023 C.elegans cDNA clone yk249d5 : 5' end, single 36, 3, 8
gb Al013322 Al013322 EST207997 Normalized rat spleen, Bento Soa 36 3.8
gb Al043280 Al043280 TENU0920 T. cruzi epimastigote normalized 36.3.8
gb A1009422 A1009422 EST203873 Normalized rat heart. Bento Soar 36.3.8
gb Al012655 Al012655 EST207106 Normalized rat placenta, Bento S 36, 3, 8
dbj C62878 C62878 C.elegans cDNA clone vk296d4 : 5' end, single 36, 3,8
gb AA915818 AA915818 SWOvL3CA1269SK Onchocerca volvulus infecti 36 3.8
gb W00009 W00009 TgESTzy75b07.r1 TgRH Tachyzoite cDNA Toxonlasm 36, 3, 9
gb AA943503 AA943503 EST199002 Normalized rat brain, Bento Soar 36, 3, 8
gb AA956933 AA956933 UI-R-E1-fl-b-08-0-UI.s1 UI-R-E1 Rattus nor 36 3.8
gb H54977 H54977 HHU16a Sorghum bicolor cv. TX430 Sorghum bicol 36 3.8

SEQ ID NO:562

15 特别的""

gb|AC000112|HSAC000112 Human PAC clone DJ149P21, complete seque... 44 0.082 gb|U50197|CELF25E2 Caenorhabditis elegans cosmid F25E2. 44 0.082 dbj|AB007727|AB007727 Arabidopsis thaliana genomic DNA, chromos... 44 0.082 gb|U02562|BSU02562 Bacillus subtilis N-acetylglucosaminidase (l... 42 0.32 dbj|D45048|BACORFX Bacillus subtilis gene for beta-N-acetylgluc... 42 0.32 emb|Z70683|CEF13B12 Caenorhabditis elegans cosmid F13B12, compl... 40 1.3 emb|AL023828|CEY17G7B Caenorhabditis elegans cosmid Y17G7B, com... 40 1.3 gb|U39740|CELZC64 Caenorhabditis elegans cosmid ZC64. 40 1.3 gb|AF006490|AF006490 Gossypium hirsutum adenine nucleotide tran... 40 1.3 emb|AL010170|PFSC03098 Plasmodium falciparum DNA *** SEQUENCING... 40 1.3 gb|U53701|GHU53701 Gossypium hirsutum alcohol dehydrogenase 2d ... 40 1.3

日本の表示**的機能を**あった。。 本名 メンタ、

HUMAN ESTs

gb|AA670455|AA670455 ae62h05.s1 Stratagene lung carcinoma 93721... 852 0.0 gb|AA251062|AA251062 zs07c10.r1 NCI_CGAP_GCB1 Homo sapiens cDNA... 795 0.0

 $\sqrt{\gamma}$

1154

4,545

1. VIII

```
gb|AA669916|AA669916 ag42h08.s1 Jia bone marrow stroma Homo sap... 638 0.0
gb|AA300058|AA300058 EST12665 Uterus tumor I Homo sapiens cDNA ... 587 e-165
gb|AA664277|AA664277 ac08c05.s1 Stratagene HeLa cell s3 937216 ... 549 e-154
gb|AA373224|AA373224 EST85230 HSC172 cells I Homo sapiens cDNA ... 529 e-148
gb|AA225705|AA225705 nc10b05.r1 NCI CGAP Pr1 Homo sapiens cDNA ... 515 e-144
gb|W27883|W27883 39b10 Human retina cDNA randomly primed sublib... 484 e-134
gb|R24643|R24643 yh36g05.r1 Homo sapiens cDNA clone 131864 5'.
                                                                438 e-121
gb|N93137|N93137 zb28h06.s1 Homo sapiens cDNA clone 304955 3'.
                                                                432 e-119
gb|AA250933|AA250933 zs07d01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA... 426
e-117
gb|AA216370|AA216370 nc10b05.s1 NCI_CGAP_Pr1 Homo sapiens cDNA ... 398 e-109
gb|H26939|H26939 yl64g01.rl Homo sapiens cDNA clone 163056 5'.
                                                                394 e-108
gb|H30169|H30169 yo58g09.rl Homo sapiens cDNA clone 182176 5'.
                                                                394 e-108
gb|W38854|W38854 zb28h06.rl Soares parathyroid tumor NbHPA Homo... 359 5e-97
gb|AA602297|AA602297 np25a11.s1 NCI_CGAP_Pr22 Homo sapiens cDNA... 281 1e-73
gb|AA167151|AA167151 zp06e09.r1 Stratagene ovarian cancer (#937... 256 6e-66
gb|AA172387|AA172387 zo99d03.s1 Stratagene ovarian cancer (#937... 234 2e-59
gb|AA173748|AA173748 zo99d03.r1 Stratagene ovarian cancer (#937... 224 2e-56
gb|T83979|T83979 yd66a11.s1 Homo sapiens cDNA clone 113180 3'.
                                                                220 3e-55
dbj|D61540|HUM415A08B Human fetal brain cDNA 5'-end GEN-415A08.
                                                                    194 2e-47
gb|N45148|N45148 yv25a05.rl Homo sapiens cDNA clone 243728 5'.
                                                                 165 2e-38
gb|AA642960|AA642960 60f07.s1 NCI_CGAP_Lym3 Homo sapiens cDNA... 147 4e-33
gb|R90980|R90980 yp93a03.r1 Homo sapiens cDNA clone 194956 5' s... 40 0.62
gb|AA521500|AA521500 aa73h08.s1 NCI CGAP GCB1 Homo sapiens cDNA... 40 0.62
gb|H82921|H82921 yq46h10.s1 Homo sapiens cDNA clone 198883 3' s... 40 0.62
gb|AA294871|AA294871 EST100023 Pancreas tumor I Homo sapiens cD...
                                                                   38 2.4
dbj|D63191|HUM503F11B Human placenta cDNA 5'-end GEN-503F11.
                                                                    38 2.4
gb|AA211096|AA211096 zq89g01.s1 Stratagene hNT neuron (#937233)...
```

gb|AA840137|AA840137 ud01e08.r1 Soares mouse uterus NMPu Mus mu... 383 e-104 gb|AA145994|AA145994 mr13h04.r1 Soares mouse 3NbMS Mus musculus... 345 3e-93 gb|AA146365|AA146365 mr05d05.r1 Soares mouse 3NbMS Mus musculus... 236 2e-60 gb|AA203902|AA203902 mu60f02.rl Soares mouse lymph node NbMLN M... 236 2e-60 gb|AA204516|AA204516 mu66c10.r1 Soares mouse lymph node NbMLN M... 182 2e-44 gb|AA137343|AA137343 mq80g08.r1 Stratagene mouse melanoma (#937... 52 6e-05 gb|AA174717|AA174717 ms67a01.r1 Soares mouse 3NbMS Mus musculus... 48 0.001 gb|W34073|W34073 ma85d10.rl Soares mouse p3NMF19.5 Mus musculus... 48 0.001 gb|AA289493|AA289493 vb36b01.r1 Soares mouse lymph node NbMLN M... 48 0.001 gb|AA177700|AA177700 mt33e12.rl Soares mouse 3NbMS Mus musculus... 48 0.001 gb|AA146021|AA146021 mr13e03.r1 Soares mouse 3NbMS Mus musculus... 48 0.001 gb|AA155352|AA155352 mn43d09.rl Beddington mouse embryonic regi... 46 0.004 gb|AA880874|AA880874 vx33b02.r1 Stratagene mouse lung 937302 Mu...

gb|AA590520|AA590520 vi54b08.r1 Beddington mouse embryonic regi... gb|AA596629|AA596629 vm56e06.r1 Stratagene mouse Tcell 937311 M... 38 0.88 dbi|D76657|MUS75H09 Mouse embryonal carcinoma F9 cell cDNA, 75H09 38 0.88 gb|AA050336|AA050336 mj12f05.r1 Soares mouse embryo NbME13.5 14... 38 0.88 gb|AA120196|AA120196 mn35a12.r1 Beddington mouse embryonic regi... gb|W85267|W85267 mf42c06.r1 Soares mouse embryo NbME13.5 14.5 M... 36 3.5 gb|AA239372|AA239372 my38f03.r1 Barstead mouse pooled organs MP... gblAA497891|AA497891 vi73c07.r1 Stratagene mouse testis (#93730... 36 3.5 gb|AA673053|AA673053 vn45e05.rl Barstead mouse myotubes MPLRB5 ... emb|Z36324|MM224 M.musculus mRNA (clone 224) for expressed sequ... gb|AI021128|AI021128 ub01f06.rl Soares mouse mammary gland NbMM... 36 3.5 gb|AA403424|AA403424 mz56f07.rl Barstead mouse pooled organs MP... gb|W66683|W66683 me23g11.r1 Soares mouse embryo NbME13.5 14.5 M... 36 3.5 gb|AA689022|AA689022 vs02c03.rl Barstead mouse irradiated colon... 36 3.5 gb|AA574590|AA574590 vn63h11.rl Barstead mouse proximal colon M... 36 3.5

dbj|C90696|C90696 Dictyostelium discoideum slug cDNA, clone SSJ634 38 0.78 gb|AA269052|AA269052 MA1MA052.AA3 S. mansoni adult Lambda Zap S... 38 0.78 gb|AA998786|AA998786 UI-R-C0-im-e-11-0-UI.s1 UI-R-C0 Rattus nor... 38 0.78 gb|H33464|H33464 EST109494 Rat PC-12 cells, NGF-treated (9 days... 38 0.78 gb|AA390721|AA390721 LD09459.5prime LD Drosophila melanogaster ... 36 3.1 dbj|C83908|C83908 Dictyostelium discoideum slug cDNA, clone SSA567 36 3.1 gb|AA202425|AA202425 LD02606.5prime LD Drosophila melanogaster ... 36 3.1 gb|AI030951|AI030951 UI-R-C0-jf-d-04-0-UI.s1 UI-R-C0 Rattus nor... 36 3.1 gb|AA246875|AA246875 LD05855.5prime LD Drosophila melanogaster ... 36 3.1 gb|AA246875|AA246875 LD05855.5prime LD Drosophila melanogaster ... 36 3.1 gb|AA997528|AA997528 UI-R-C0-hw-h-11-0-UI.s1 UI-R-C0 Rattus nor... 36 3.1 gb|AA997528|AA997528 UI-R-C0-hw-h-11-0-UI.s1 UI-R-C0 Rattus nor... 36 3.1 gb|AA695197|AA695197 GM02389.5prime GM Drosophila melanogaster ... 36 3.1 gb|AA567339|AA567339 HL01077.5prime HL Drosophila melanogaster ... 36 3.1 gb|AA950648|AA950648 LD30547.5prime LD Drosophila melanogaster ... 36 3.1

SEQ ID NO:563

substantially identical to D86956

SEQ ID NO:564

gb AC004505 AC004505 Homo sapiens chromosome 20, P1 clone 86C1 176 1e-41
gb S78798 S78798 1-phosphatidylinositol-4-phosphate 5-kinase is 115 4e-23
gb U48696 HSU48696 Human mariner-like element-containing mRNA, 115 4e-23
gb U66300 LEU66300 Lycopersicon esculentum heat shock protein (115 4e-23
gb AF045432 AF045432 Danio rerio stem cell leukemia protein (ta 111 6e-22
emb Z97178 BVRNAEF2 Beta vulgaris cDNA for elongation factor 2 107 9e-21
gb U39066 MMU39066 Murine MAP kinase kinase 6c mRNA, complete cds. 101 6e-19
gb U37573 XXU37573 Shuttle expression vector pBKCMV. 96 4e-17
gb AF033097 AF033097 Avena sativa nonphototropic hypocotyl 1 (N 90 2e-15
gb AF027174 AF027174 Arabidopsis thaliana cellulose synthase ca 86 3e-14
gb U65376 CFU65376 Canis familiaris rod photoreceptor transduci 84 1e-13
gb AF033565 AF033565 Mus musculus cdc2/CDC28-like protein kinas 82 5e-13
emb Z49980 HS2AMCP H.sapiens mRNA for ets-like protein (clone 7 82 5e-13
emb AJ001103 LLARCAB Lactococcus lactis arcA and arcB genes 80 2e-12
gb U52868 CFU52868 Canis familiaris retinal cyclic-GMP phosphod 80 2e-12
gb G29058 G29058 chicken STS ADL368 76 3e-11
gb G29060 G29060 chicken STS ADL352 76 3e-11
gb U34048 HDU34048 Haemophilus ducreyi hemoglobin-binding prote 76 3e-11
gb U44386 SLU44386 Solanum lycopersicum heat shock protein (TFH 68 8e-09
gb S83098 S83098 ribosomal protein S3 [Ambystoma mexicanum=Mexi 66 3e-08
gb U48697 HSU48697 Human mariner-like element-containing mRNA, 60 2e-06
gb AF033096 AF033096 Avena sativa nonphototropic hypocotyl 1 (N 60 2e-06 2e
emb X99051 LLATTMSAT L.lagopus ATT microsatellite, locus LLST1 58 8e-06 199051 10 10 10 10 10 10 10 10 10 10 10 10 10
gb/U41811 HAU41811 Homarus americanus beta-I tubulin mRNA, comp 46 0.02943111414141811
emb X99055 LECAMSAT1 L.lagopus CA microsatellite, locus LLSD5 44 0.12 10 10 10 10 10 10 10 10 10 10 10 10 10
emb X65215 BTMISATN B.taurus microsatellite DNA (624bp) 44 0.12 40 N65215 (1997)
gb AE001023 AE001023 Archaeoglobus fulgidus section 84 of 172 o 42 0.46
emb X80164 HSPDCM4 H.salinarium phage dcm4 Virus DNA 42 0.46
emb X87859 MTCMAJ12S C.major mitochondrial gene for 12S ribosom 42 0.46
emb X87861 MTCPAL12S C.pallidus mitochondrial gene for 12S ribo 42 0.46
gb L13767 STMSEC101A Streptomyus lividans sec101 gene, 5' end p 42 0.46
emb Y08962 OSTRAMBPR O.sativa mRNA for transmembrane protein >g 40 1.8
gb S65686 S65686 {multiple cloning sites, vector} [bacteriophag 40 1.8
gb J02871 HUMCP45IV Human lung cytochrome P450 (IV subfamily) B 40 1.8
dbj D10450 HUMRTVE Human genomic DNA, retrovirus-like element 40 1.8
gb S65683 S65683 {multiple cloning sites, vector} [bacteriophag 40 1.8
gb L14950 PIGALDRED Sus scrofa aldose reductase mRNA, complete 40 1.8
gb S65693 S65693 {multiple cloning sites, vector} [bacteriophag 40 1.8
gb S65694 S65694 {multiple cloning sites, vector} [bacteriophag 40 1.8
emb AJ223292 SPAJ3292 Streptococcus pyogenes SOD gene, complete 40 1.8
gb U25846 HAU25846 Homarus americanus clone LOB5 farnesoic acid 40 1.8
emb X16699 HSP450P2 Human mRNA for cytochrome P-450HP 40 1.8
gb U37100 HSU37100 Homo sapiens aldose reductase-like peptide m 40 1.8

HUMAN ESTs

```
gb|AA305996|AA305996 EST177003 Jurkat T-cells VI Homo sapiens c... 942 0.0
 gb|AA975279|AA975279 oq36e08.s1 NCI_CGAP_GC4 Homo sapiens cDNA ... 900 0.0
 gb|AA426359|AA426359 zw11b02.r1 Soares NhHMPu S1 Homo sapiens c... 868 0.0
 gb|AA424296|AA424296 zv90b08.r1 Soares NhHMPu S1 Homo sapiens c... 749 0.0
 gb|AA632259|AA632259 np67d04.s1 NCI_CGAP_Br2 Homo sapiens cDNA ... 730 0.0
 gb|H80377|H80377 yu59e01.r1 Homo sapiens cDNA clone 230424 5'.
                                                            658 0.0
 gb|AA515175|AA515175 ng68f10.s1 NCI_CGAP_Lip2 Homo sapiens cDNA... 615 e-174
 gb|AA351770|AA351770 EST59616 Infant brain Homo sapiens cDNA 5'... 611 e-172
 gb|AA426522|AA426522 zw11b02.s1 Soares NhHMPu S1 Homo sapiens c... 587 e-165
 gb|AA676220|AA676220 zi22a12.s1 Soares fetal liver spleen 1NFLS... 585 e-165
 gb|R35132|R35132 yg60e09.r1 Homo sapiens cDNA clone 36874 5'.
                                                            579 e-163
 gb|H80280|H80280 yu59e01.s1 Homo sapiens cDNA clone 230424 3'.
                                                            579 e-163
 gb|H81145|H81145 yu60e01.rl Homo sapiens cDNA clone 230520 5'.
                                                            561 e-157
 gb|AA311105|AA311105 EST18187 Heart I Homo sapiens cDNA 5' end
                                                              533 e-149
 gb|AA380530|AA380530 EST93691 Supt cells Homo sapiens cDNA 5' end 527 e-147
 gb|H81050|H81050 yu60e01.s1 Homo sapiens cDNA clone 230520 3'.
                                                            500 e-139
 gb|AA460005|AA460005 zx49g07.s1 Soares testis NHT Homo sapiens ...
                                                            482 e-134
 gb|AA076450|AA076450 zm91d12.r1 Stratagene ovarian cancer (#937...
                                                            466 e-129
 gb|N43873|N43873 yy43e09.r1 Homo sapiens cDNA clone 274024 5'.
                                                            452 e-125.
gb|AA076451|AA076451 zm91d12.s1 Stratagene ovarian cancer (#937...
                                                            418 e-115
gb|AA907095|AA907095 ol03b12:s1 NCI_CGAP_Lu5 Homo sapiens cDNA ... 414/e-1130/55
gb|H65491|H65491 yr56a08.s1 Homo sapiens cDNA clone 209270 3'.
                                                            222 1e-55[16549] $1656 an
 gb|N48543|N48543 yy49d08.r1 Homo sapiens cDNA clone 276879 5'.
                                                            210 4e-52 4 656 454 ( )
 gb|R32579|R32579 yh54h06.r1 Homo sapiens cDNA clone 133595 5'.
                                                            194 2e-47
 gb|AA247827|AA247827 j0778.seq.F Human fetal heart, Lambda ZAP ... 117 5e-24
 N84048, (many others similar, but smaller)
```

gb|AA589598|AA589598 vl49d08.s1 Stratagene mouse skin (#937313)... 398 e-109 gb|AA647465|AA647465 vq82f02.s1 Knowles Solter mouse 2 cell Mus... 385 e-105 gb|AA510284|AA510284 vh58f02.r1 Soares mouse mammary gland NbMM... 345 4e-93 gb|AA028696|AA028696 mi12e12.r1 Soares mouse p3NMF19.5 Mus musc... 307 9e-82 gb|N28081|N28081 MDB1409R Mouse brain, Stratagene Mus musculus ... 244 1e-62 gb|AA177452|AA177452 mt24c12.r1 Soares mouse 3NbMS Mus musculus... 226 3e-57 gb|N28080|N28080 MDB1409 Mouse brain, Stratagene Mus musculus c... 226 3e-57 dbj|C88310|C88310 Mus musculus fertilized egg cDNA 3'-end seque... 226 3e-57 gb|AA763786|AA763786 vo99g12.r1 Soares mouse mammary gland NbMM... 94 2e-17 gb|AA667535|AA667535 vv18b12.r1 Stratagene mouse heart (#937316... 40 0.31 gb|AA208274|AA208274 mv96a01.r1 GuayWoodford Beier mouse kidney... 38 1.2

gb|AA444814|AA444814 vg50e04.rl Soares mouse mammary gland NbMM... 38 1.2 gb|AA763341|AA763341 vw53b12.r1 Soares mouse mammary gland NMLM... 38 1.2 gb|AA110827|AA110827 mp57a12.r1 Soares 2NbMT Mus musculus cDNA ... gb|AA691932|AA691932 vt06b04.r1 Barstead mouse myotubes MPLRB5 ... 38 1.2 gb|W77233|W77233 me61f11.r1 Soares mouse embryo NbME13.5 14.5 M... gb|AA072872|AA072872 mm80g08.rl Stratagene mouse embryonic carc... gb|AA980630|AA980630 ua43f05.r1 Soares mouse mammary gland NbMM... gb|AA065522|AA065522 ml54d09.r1 Stratagene mouse testis (#93730... 36 4.9 gb|AA982398|AA982398 uh07b08.rl Soares mouse hypothalamus NMHy ... 36 4.9 gb|W62610|W62610 md58c06.rl Soares mouse embryo NbME13.5 14.5 M... 36 4.9 gb|AA286651|AA286651-vb79b02.rl-Soares-mouse-3NME12-5-Mus-muscu...-36-4.9gb|AA399772|AA399772 vd70g05.rl Beddington mouse embryonic regi... 36 4.9 gb|AA510475|AA510475 vg32h08.rl Soares mouse mammary gland NbMM... gb|AA109064|AA109064 ml63g02.r1 Stratagene mouse testis (#93730... 36 4.9 gb|AA033485|AA033485 mi42c08.r1 Soares mouse embryo NbME13.5 14... gb|W57221|W57221 md59g10.r1 Soares mouse embryo NbME13.5 14.5 M... gb|AA467106|AA467106 vd98b04.r1 Soares mouse NbMH Mus musculus ... gb|W97470|W97470 mf95a11.r1 Soares mouse embryo NbME13.5 14.5 M... 36 4.9 gb|AA606917|AA606917 vm91c05.rl Knowles Solter mouse blastocyst... 36 4.9 dbj|C78330|C78330 Mus musculus 3.5-dpc blastocyst cDNA 3'-end s... 36 4.9 gb|AA013753|AA013753 mh26h12.r1 Soares mouse placenta 4NbMP13.5... 36 4.9 gb|AA145240|AA145240 mr12a03.r1 Soares mouse 3NbMS Mus musculus... 36.4.9 gb|AA245533|AA245533 mx03c11.r1 Soares mouse NML Mus musculus c... 36, 4.9 gb|AA770893|AA770893 vt13a08.rl Barstead mouse myotubes MPLRB5 ... 36:49 dbi|C79987|C79987 Mus musculus 3.5-dpc blastocyst cDNA35-end s... 36 4.9 date: and the state of t dbi|C89051|C89051 Mus musculus early blastocyst cDNA, clone 01B... 36 4.9 gb|AA058308|AA058308 mj59e09.r1 Soares mouse embryo NbME13.5 14... 36 4.9 gb|AA673826|AA673826 vu08h10.rl Barstead mouse myotubes MPLRB5 ... gb|AA637080|AA637080 vn07h04.rl Knowles Solter mouse blastocyst... 36 4.9 gb|W44292|W44292 mc80c07.r1 Soares mouse embryo NbME13.5 14.5 M...

gb|AA955972|AA955972 UI-R-E1-ff-d-10-0-UI.s1 UI-R-E1 Rattus nor... 159 4e-37 gb|AA957275|AA957275 UI-R-E1-fq-f-08-0-UI.s1 UI-R-E1 Rattus nor... 157 2e-36 emb|Z84031|SSZ84031 S.scrofa mRNA; expressed sequence tag (5'; ... 111 9e-23 gb|AF041408|AF041408 Fragaria x ananassa clone FA110b 96 5e-18 gb|AA933116|AA933116 SWBmL3SA048T3 Brugia malayi L3 subtracted ... 58 1e-06 gb|AA933363|AA933363 SWBmL3SA048T3 Brugia malayi L3 subtracted ... 52 7e-05 gb|AA660164|AA660164 00001 MtRHE Medicago truncatula cDNA 5' si... 50 3e-04 gb|N37420|N37420 18647 Lambda-PRL2 Arabidopsis thaliana cDNA cl... 44 0.018 gb|H35981|H35981 14503 Lambda-PRL2 Arabidopsis thaliana cDNA cl... 44 0.018 gb|AA882627|AA882627 TENS0198 T. cruzi epimastigote normalized ... 44 0.018 gb|AI026481|AI026481 TENU0693 T. cruzi epimastigote normalized ... 42 0.070 gb|AA946369|AA946369 EST201868 Normalized rat lung, Bento Soare... 42 0.070

SEQ ID NO:565

マヤ ♥ フン/Vサムひょ

emb|X68308|OOLPLIP O.ovis mRNA for lipoprotein lipase 40 1.2 gb|AE000660|HUAE000660 Homo sapiens T-cell receptor alpha delta... 40 1.2 emb|AL022333|HS474I12 Human DNA sequence *** SEQUENCING IN PROG... 38 4.6 emb|Z12618|CFTRG C.fasciculata gene encoding trypanothione redu... gb|M81651|HUMSEMIIB Human semenogelin II (SEMGII) gene, complet... 38 4.6 gb|M96980|HUMMYT1A Homo sapiens myelin transcription factor 1 (... 38 4.6 gb|U89688|ACU89688 Acanthamoeba castellanii myosin-I binding pr... 38 4.6 gb|AC002497|AC002497 Human Cosmid g1940a142 from 7q31.3, comple... 38 4.6 gb|M81652|HUMSMNGLN Homo sapiens semenogelin II mRNA, complete ... 38 4.6 gb|M25665|HUMNCF1A Human neutrophil cytosol factor 1 (NCF-47k) ... 38 4.6 gb|M73325|TRFTRPREDC Crithidia fasciculata trypanothione reduct... 38 4.6 gb|M73324|TRFTRPREDB Crithidia fasciculata trypanothione reduct... 38 4.6 emb|X92589|MMSEMIIGN M.mulatta semenogelin II gene emb|Z47556|HSSG1SG2 H.sapiens genes for semenogelin I and semen... 38 4.6 gb|AC004753|AC004753 Homo sapiens chromosome 16, cosmid clone R... 38 4.6 gb|M55067|HUMNADPHO Human 47-kD autosomal chronic granulomatous... 38 4.6

gb|M73323|TRFTRPREDA Crithidia fasciculata trypanothione reduct... 38 4.6

HUMAN ESTs

11D 110 (01D 110 (0 m.654 - 05 m.1) I amo panione aDNIA along 25050 5! (556 0.0)	
gb R11942 R11942 yf54c05.r1 Homo sapiens cDNA clone 25950 5'. 656 0.0	
gb AA366384 AA366384 EST77326 Pancreas tumor III Homo sapiens c 470 e-130	
gb T12566 T12566 CHR90086 Homo sapiens genomic clone P94_24 5' 133_5e-29	
gb R37032 R37032 yf54c05.s1 Homo sapiens cDNA clone 25950 3'. 44 0.036	
gb AA661650 AA661650 nv02h12.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA261982 AA261982-zs20d03.rl-NCI_CGAP_GCB1-Homo-sapiens-cDNA38-2.2	,
gb AA588219 AA588219 no24c11.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA250891 AA250891 zs06c06.rl NCI_CGAP_GCB1 Homo sapiens cDNA 38 2.2	
gb AA244177 AA244177 nc05a02.rl NCI_CGAP_Prl Homo sapiens cDNA 38 2.2	
gb AA715147 AA715147 nv10d05.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA659887 AA659887 nv03a10.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA627890 AA627890 nq70a08.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA603596 AA603596 np27b11.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA613738 AA613738 np25h09.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA715248 AA715248 nv10h06.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AI038487 AI038487 ow25d12.x1 Soares_parathyroid_tumor_NbHPA 38 2.2	
gb AA252786 AA252786 zs26f10.rl NCI_CGAP_GCB1 Homo sapiens cDNA38, 2,2	
gb AA287819 AA287819 zs50h04.r1 NCI_CGAP_GCB1 Homo sapiens cDNA 38.222	
gb AA564176 AA564176 nj04c08.s1 NCI_CGAP_Pr21 Homo sapiens cDNA 38.2.23	
gb AA643870 AA643870 np26h07.s1 NCI_CGAP_Pr22 Homo sapiens cDNA38 2.2	
gb AA280371 AA280371 zt05f07:r1 NCI_CGAP_GCB1 Homo sapiens cDNA 38A22	
gb R00687 R00687 ye78h08.r1 Homo sapiens cDNA clone 123903 5' s 38 2.2	A Park to
gb AA587820 AA587820 nj06h05.s1 NCI_CGAP_Pr21 Homo sapiens cDNA 38 2.2	- my. *
gb AA588443 AA588443 no22c11.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA568385 AA568385 nl88f06.s1 NCI_CGAP_Co10 Homo sapiens cDNA 38 2.2	
gb AA281831 AA281831 zt06c08.r1 NCI_CGAP_GCB1 Homo sapiens cDNA 38 2.2	2
gb AA700438 AA700438 zj74b08.s1 Soares fetal liver spleen 1NFLS 38 2.2	
gb AA689530 AA689530 ns66e07.r1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA688300 AA688300 nv14a09.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	,
gb AA687962 AA687962 nv13h04.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	ı
gb AA526586 AA526586 ni96f11.s1 NCI_CGAP_Pr21 Homo sapiens cDNA 38 2.2	·
gb AA642589 AA642589 nq73f04.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA541594 AA541594 ni89g07.s1 NCI_CGAP_Pr21 Homo sapiens cDNA 38 2.2	·
gb AA278713 AA278713 zs76h02.rl NCI_CGAP_GCB1 Homo sapiens cDNA 38 2.	.2
gb T58661 T58661 ya94a07.r1 Homo sapiens cDNA clone 69300 5' si 38 2.2	
gb AA689473 AA689473 ns66e07.s1 NCI_CGAP_Pr22 Homo sapiens cDNA 38 2.2	
gb AA459023 AA459023 aa26a09.r1 NCI_CGAP_GCB1 Homo sapiens cDNA 38 2.	.2

dbj C76752 C76752 Mus musculus 3.5-dpc blastocyst cDNA 3'-end s 60 2e-07	
gb AA123048 AA123048 mn32g01.rl Beddington mouse embryonic regi 36 3.	
gb AA616529 AA616529 vo10e01.rl Barstead mouse myotubes MPLRB5 36	3.2
gb AA254370 AA254370 va13h09.rl Soares mouse lymph node NbMLN M 36	3.2
gb AA537288 AA537288 vk46c04.r1 Soares mouse mammary gland NbMM 36	5 3.2
gb AA462365 AA462365 vg74c05.rl Soares mouse NbMH Mus musculus 36	
gb AA589462 AA589462 vl47g07.s1 Stratagene mouse skin (#937313) 36 3.2	
gb AA968017 AA968017 uh06h10.r1 Soares mouse hypothalamus NMHy 36	3.2

dbj|C93868|C93868 Dictyostelium discoideum slug cDNA, clone SSL809 gb|AA531984|AA531984 TgESTzz46b06.rl TgME49 invivo Bradyzoite c... 36 2.8 gb|N60418|N60418 TgESTzy07a10.rl TgRH Tachyzoite cDNA Toxoplasm... 36 2.8 gb|H32045|H32045 EST106774 Rat PC-12 cells, untreated Rattus sp... gb|AA956789|AA956789 UI-R-E1-fr-h-01-0-UI.s1 UI-R-E1 Rattus nor... gb|H33275|H33275 EST109117 Rat PC-12 cells, NGF-treated (9 days... gb|AA531938|AA531938 TgESTzz45b08.r1 TgME49 invivo Bradyzoite c... _36_2.8_ dbj|D41507|RICS4044A Rice cDNA, partial sequence (S4044 1A). 36 2.8 gb|AA799411|AA799411 EST188908 Normalized rat heart, Bento Soar... 36 2.8 gb|AA519671|AA519671 TgESTzz27c10.rl TgME49 invivo Bradyzoite c... dbj|D40678|RICS2786A Rice cDNA, partial sequence (S2786 1A) gb|AA012430|AA012430 TgESTzz22b12.rl TgME49cDNA.Toxoplasma gond... 36 2:8 dbj|D40551|RICS2612A Rice cDNA, partial sequence (S2612A) 36 2.8 gb|AI008452|AI008452 EST202903 Normalized rat embryo Bento Soa... 36 2.8 dbj|D41253|RICS3620A Rice cDNA, partial sequence (S362041A). 36 2.8 · 在到建設的1999 gb|AA923843|AA923843 UI-R-A1-dr-f-04-0-UI.s1 UI-R-A1-Rattus nor... 36 2.8 gb|AA799410|AA799410 EST188907 Normalized rat heart, Bento Soar...

eg Agrage en a

man Spring and

Constitution of the second

We claim:

ABABA ABABA

Augusta.

A method of diagnosing a disorder characterized by expression of a human 1. cancer associated antigen precursor coded for by a nucleic acid molecule, comprising: contacting a biological sample isolated from a subject with an agent that specifically binds to the nucleic acid molecule, an expression product thereof, or a fragment of an expression product thereof complexed with an HLA molecule, wherein the nucleic acid molecule is a NA Group 1 nucleic acid molecule, and determining the interaction between the agent and the nucleic acid molecule or the expression product as a determination of the disorder. The method of claim 1, wherein the agent is selected from the group 10 2. consisting of (a) a nucleotide acid molecule comprising NA group 1 nucleic acid molecules or a fragment thereof, 15 2.35 (b) A CONTRACTOR OF THE PARTY OF TH 1 - Villa 1 - 4 a nucleic acid molecule comprising NA group 3 nucleic acid molecules or a fragment thereof, 20 (c) a nucleic acid molecule comprising NA group 17 nucleic acid molecules or a fragment thereof, 25 (d) an antibody that binds to an expression product of NA group 1 nucleic acids, (e) an antibody that binds to an expression product of NA group 3 nucleic 30 acids,

(f)
an antibody that binds to an expression product of NA group 17 nucleic acids,

(g)

and agent that binds to a complex of an HLA molecule and a fragment of an expression product of a NA group 1 nucleic acid,

an agent that binds to a complex of an HLA molecule and a fragment of an

-----expression-product-of a NA-group 3 nucleic-acid, and

an agent that binds to a complex of an HLA molecule and a fragment of an expression product of a NA group 17 nucleic acid.

3. The method of claim 1, wherein the disorder is characterized by expression of a plurality of human cancer associated antigen precursors and wherein the agent is a plurality of agents, each of which is specific for a different human cancer associated antigen precursor, and wherein said plurality of agents is at least 2, at least 3, at least 4, at least 4, at least 6, at least 7, or at least 8, at least 9 or at least 10 such agents.

20

- The method of claims 1-3, wherein the agent is specific for a human cancer associated antigen precursor that is a breast, a gastric, a lung, a prostate, a renal or a colon cancer associated antigen precursor.
- 5. A method for determining regression, progression or onset of a condition characterized by expression of abnormal levels of a protein encoded by a nucleic acid molecule that is a NA Group 1 molecule, comprising

monitoring a sample, from a patient who has or is suspected of having the condition, for a parameter selected from the group consisting of

		(I)
5	. · · ·	the protein,
		(ii)
		a peptide derived from the protein,
10		(iii)
		an antibody which selectively binds the protein or peptide, and
		(iv)
		cytolytic T cells specific for a complex of the peptide derived from the
15	protein and an MHC	
est Kilo Palis Vi		as a determination of regression, progression or onset of said condition.
rik districti Gill Madellich		en e
,.	U.	The method of claim 5, wherein the sample is a body fluid, a body
	effusion or a tissue.	
20		
	7.	The method of claim 5, wherein the step of monitoring comprises
	contacting the sample	with a detectable agent selected from the group consisting of
		(a)
25		an antibody which selectively binds the protein of (I), or the peptide of (ii),
		(b)
		a protein or peptide which binds the antibody of (iii), and
30		(c)

		a cell which presents the complex of the peptide and MHC molecule of
	(iv).	
5		
	8.	The method of claim 7, wherein the antibody, the protein, the peptide or
	the cell is labeled	with a radioactive label or an enzyme.
÷		
	9.	The method of claim 5, comprising assaying the sample for the peptide.
10		
	10.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
	3 molecule.	
	11.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
15	11 molecule.	
•		The second s The second s
	12.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
•	12 molecule.	and the property of the second
20	13.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
	13 molecule.	
	14.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
	14 molecule.	
25		
	15.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
	15 molecule.	
	1.0	
	16.	The method of claim 5, wherein the nucleic acid molecule is a NA Group
30	16 molecule.	

17.	The method of claim 5, wherein the protein is a plurality of proteins, the
parameter is a pluralit	y of parameters, each of the plurality of parameters being specific for a
different of the plurali	ty of proteins.

- A pharmaceutical preparation for a human subject comprising
 an agent which when administered to the subject enriches selectively the
 presence of complexes of an HLA molecule and a human cancer associated antigen, and
 a pharmaceutically acceptable carrier, wherein the human cancer
- associated antigen is a fragment of a human cancer associated antigen precursor encoded by a nucleic acid molecule comprises a NA Group 1 molecule.
 - The pharmaceutical preparation of claim 18, wherein the agent comprises a plurality of agents, each of which enriches selectively in the subject complexes of an HLA molecule and a different human cancer associated antigen.
 - 20. The pharmaceutical preparation of claim 19, wherein the plurality is at least two, at least three, at least four or at least 5 different such agents.
- The pharmaceutical preparation of claim 18, wherein the nucleic acid molecule is a NA Group 3 nucleic acid molecule.
 - 22. The pharmaceutical preparation of claim 18, wherein the agent is selected from the group consisting of
- (1) an isolated polypeptide comprising the human cancer associated antigen, or a functional variant thereof,
 - (2) an isolated nucleic acid operably linked to a promoter for expressing the isolated polypeptide, or functional variant thereof,
 - (3) a host cell expressing the isolated polypeptide, or functional variant thereof, and

10

. 15

25

I CI/UU/U/ITU/

	(4) isolated complexes of the polypeptide, or functional variant the	reof
and an HLA molecule		

- 23. The pharmaceutical preparation of claims 18-22, further comprising an adjuvant.
 - 24. The pharmaceutical preparation of claim 18, wherein the agent is a cell expressing an isolated polypeptide comprising the human cancer associated antigen or a functional variant thereof, and wherein the cell is nonproliferative.

25. The pharmaceutical preparation of claim 18, wherein the agent is a cell expressing an isolated polypeptide comprising the human cancer associated antigen or a functional variant thereof, and wherein the cell expresses an HLA molecule that binds the polypeptide.

- The pharmaceutical preparation of claim 18, wherein the agent is at least two, at least three, at least four or at least five different polypeptides, each coding for a different human cancer associated antigen or functional variant thereof.
- 27. The pharmaceutical preparation of claim 18, wherein the agent is a PP Group 2 polypeptide.
 - 28. The pharmaceutical preparation of claim 18, wherein the agent is a PP Group 3 polypeptide or a PP Group 4 polypeptide.
 - 29. The pharmaceutical preparation of claim 25, wherein the cell expresses one or both of the polypeptide and HLA molecule recombinantly.
- 30. The pharmaceutical preparation of claim 25, wherein the cell is nonproliferative.

- 31. A composition comprising
 an isolated agent that binds selectively a PP Group 1 polypeptide.
- 32. The composition of matter of claim 31, wherein the agent binds selectively a PP Group 3 polypeptide.
 - 33. The composition of matter of claim 31, wherein the agent binds selectively a PP Group 11 polypeptide.
- The composition of matter of claim 31, wherein the agent binds selectively a PP Group 12 polypeptide.
 - 35. The composition of matter of claim 31, wherein the agent binds selectively a PP Group 13 polypeptide.
 - The composition of matter of claim 31, wherein the agent binds selectively a PP Group 14 polypeptide.
- The composition of matter of claim 31, wherein the agent binds selectively a PP Group 15 polypeptide.
 - 38. The composition of matter of claim 31, wherein the agent binds selectively a PP Group 16 polypeptide.
- The composition of claims 31-38, wherein the agent is a plurality of different agents that bind selectively at least two, at least three, at least four, or at least five different such polypeptides.
 - 40. The composition of claims 31-38, wherein the agent is an antibody.

	41.	The composition of claim 39, wherein the agent is an antibody.
	42.	A composition of matter comprising
		a conjugate of the agent of claims 31-41 and a therapeutic or diagnostic
5	agent.	
	43.	The composition of matter of claim 42, wherein the conjugate is of the
	agent and a therape	utic or diagnostic that is a toxin.
10	44.	A pharmaceutical composition comprising an isolated nucleic acid
	molecule selected fi	rom the group consisting of:
		(1)
		NA Group 1 molecules, and
15		(2)
	the market of the	NA Group 2 molecules, and a pharmaceutically acceptable carrier.
	1.5 (Co.d) (a)	Addition of the second section of the
	45.	The pharmaceutical composition of claim 44, wherein the isolated nucleic
	acid molecule comp	orises a NA Group 3 or NA Group 4 molecule.
20		
	46.	The pharmaceutical composition of claim 44, wherein the isolated nucleic
	acid molecule comp	prises at least two isolated nucleic acid molecules coding for two different
	polypeptides, each	polypeptide comprising a different human cancer associated antigen.
25	47.	The pharmaceutical composition of claims 44-46 further comprising an
	expression vector v	with a promoter operably linked to the isolated nucleic acid molecule.
	48.	The pharmaceutical composition of claims 44-46 further comprising a host
	cell recombinantly	expressing the isolated nucleic acid molecule.
30	•	

49.	A pharmaceutical composition comprising
	an isolated polypeptide comprising a PP Group 1 or a PP Group 2
polypeptide, and	
	a pharmaceutically acceptable carrier.

- 50. The pharmaceutical composition of claim 49, wherein the isolated polypeptide comprises a PP Group 3 or a PP Group 4 polypeptide.
- 10 51. The pharmaceutical composition of claim 49, wherein the isolated polypeptide comprises at least two different polypeptides, each comprising a different human cancer associated antigen.
- The pharmaceutical composition of claim 49, wherein the isolated polypeptides are PP Group 11 polypeptides or HLA binding fragments thereof.
 - The pharmaceutical composition of claim 49, wherein the isolated polypeptides are PP

 Group 12 polypeptides or HLA binding fragments thereof.

20

- 54. The pharmaceutical composition of claim 49, wherein the isolated polypeptides are PP Group 13 polypeptides or HLA binding fragments thereof.
- The pharmaceutical composition of claim 49, wherein the isolated polypeptides are PP Group 14 polypeptides or HLA binding fragments thereof.
 - The pharmaceutical composition of claim 49, wherein the isolated polypeptides are PP Group 15 polypeptides or HLA binding fragments thereof.

	57.	The pharmaceutical composition of claim 49, wherein the isolated
	polypeptides	are PP Group 16 polypeptides or HLA binding fragments thereof.
_	58.	The pharmaceutical composition of claims 49-57, further comprising an
5	adjuvant.	
	59.	An isolated nucleic acid molecule comprising a NA Group 3 molecule.
10	60.	An isolated nucleic acid molecule comprising a NA Group 4 molecule.
	61.	The isolated nucleic acid molecule of claims 59-60, wherein the molecule
	is a Group-1-1	molecule or a fragment thereof.
	62.	The isolated nucleic acid molecule of claims 59-60, wherein the molecule
. 15	is a Group 12	2 molecule or a fragment thereof.
·. ·	63.	The isolated nucleic acid molecule of claims 59-60, wherein the molecule
	is a Group 13	3 molecule or a fragment thereof.
20	64.	The isolated nucleic acid molecule of claims 59-60, wherein the molecule
	is a Group 14	4 molecule or a fragment thereof.
	65.	The isolated nucleic acid molecule of claims 59-60, wherein the molecule
	is a Group 1:	5 molecule or a fragment thereof.
25	;	
	66.	The isolated nucleic acid molecule of claims 59-60, wherein the molecule
	is a Group 1	6 molecule or a fragment thereof.
	67.	An isolated nucleic acid molecule selected from the group consisting of

(a)

a fragment of a nucleic acid selected from the group of nucleic acid consisting of SEQ ID NOs presenting nucleic acid sequences among SEQ ID NOs. 1-816, of sufficient length to represent a sequence unique within the human genome, and identifying a nucleic acid encoding a human cancer associated antigen precursor,

(b)

complements of (a),

10

5

provided that the fragment includes a sequence of contiguous nucleotides which is not identical to any sequence selected from the sequence group consisting of

(1) sequences having the GenBank accession numbers of Table 1

15

(correct?),

- (2) complements of (1), and
- (3) fragments of (1) and (2).

68. The isolated nucleic acid molecule of claim 67, wherein the sequence of contiguous nucleotides is selected from the group consisting of:

20

(1)

The same of the same of the

at least two contiguous nucleotides nonidentical to the sequence group,

(2)

at least three contiguous nucleotides nonidentical to the sequence group,

(3)

25

at least four contiguous nucleotides nonidentical to the sequence group,

(4)

at least five contiguous nucleotides nonidentical to the sequence group,

(5)

30

at least six contiguous nucleotides nonidentical to the sequence group,

(6)

at least seven contiguous nucleotides nonidentical to the sequence group.

- 69. The isolated nucleic acid molecule of claim 67, wherein the fragment has a size selected from the group consisting of at least: 8 nucleotides, 10 nucleotides, 12 nucleotides, 14 nucleotides, 16 nucleotides, 18 nucleotides, 20, nucleotides, 22 nucleotides, 24 nucleotides, 26 nucleotides, 28 nucleotides, 30 nucleotides, 50 nucleotides, 75 nucleotides, 100 nucleotides, and 200 nucleotides.
- The isolated nucleic acid molecule of claim 67, wherein the molecule encodes a polypeptide which, or a fragment of which, binds a human HLA receptor or a human antibody.
- 71. An expression vector comprising an isolated nucleic acid molecule of claims 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69 or 70 operably linked to a promoter.
 - 72. An expression vector comprising a nucleic acid operably linked to a promoter, wherein the nucleic acid is a NA Group 2 molecule.
- 20 73. An expression vector comprising a NA Group 1 or Group 2 molecule and a nucleic acid encoding an HLA molecule.
 - 74. A host cell transformed or transfected with an expression vector of claims 71, 72, or 73.
 - 75. A host cell transformed or transfected with an expression vector of claim 71 or claim 72 and further comprising a nucleic acid encoding HLA.
- 76. An isolated polypeptide encoded by the isolated nucleic acid molecule of claims 59, 60, 61, 62, 63, 64, 65, or 66.

77.

A fragment of the polypeptide of claim 76 which is immunogenic.

84.	The kit of claim 83, wherein the pair of isolated nucleic acid molecules is
constructed and arrang	ged to selectively amplify an isolated nucleic acid molecule that is a NA
Group 3 molecule.	

85. A method for treating a subject with a disorder characterized by expression of a human cancer associated antigen precursor, comprising

administering to the subject an amount of an agent, which enriches selectively in the subject the presence of complexes of an HLA molecule and a human cancer associated antigen, effective to ameliorate the disorder, wherein the human cancer associated antigen is a fragment of a human cancer associated antigen precursor encoded by a nucleic acid molecule selected from the group consisting of

(a)
a nucleic acid molecule comprising NA group 1 nucleic acid molecules,

15

20

25

or allahasi tan

CONTRACTOR OF A

5

10

(b)

a nucleic acid molecule comprising NA group 3 nucleic acid molecules,

(c)

a nucleic acid molecule comprising NA group 17 nucleic acid molecules.

- 86. The method of claim 85, wherein the disorder is characterized by expression of a plurality of human cancer associated antigen precursors and wherein the agent is a plurality of agents, each of which enriches selectively in the subject the presence of complexes of an HLA molecule and a different human cancer associated antigen.
- 87. The method of claim 86, wherein the plurality is at least 2, at least 3, at least 4, or at least 5 such agents.

The method of claims 85-87, wherein the agent is an isolated polypeptide selected from the group consisting of PP Group 1, PP Group 2, PP Group 3, PP Group 4, PP Group 5, PP Group 6, PP Group 7, PP Group 8, PP Group 9, PP Group 10, PP Group 11, PP Group 12, PP Group 13, PP Group 14, PP Group 15, PP Group 16 and PP Group 17 polypeptides.

89. The method of claims 85-88, wherein the disorder is cancer.

90. A method for treating a subject having a condition characterized by
expression of a human cancer associated antigen precursor in cells of the subject, comprising:

removing an immunoreactive cell containing sample from the subject,

15 (ii)

contacting the immunoreactive cell containing sample to the host cell resource submitted and a submitted and a submitted and an antigen which is a fragment of the precursor,

20 (iii)

25

introducing the cytolytic T cells to the subject in an amount effective to lyse cells which express the human cancer associated antigen, wherein the host cell is transformed or transfected with an expression vector comprising an isolated nucleic acid molecule operably linked to a promoter, the isolated nucleic acid molecule being selected from the group of nucleic acid molecules consisting of NA Group 1, NA Group 2, NA Group 3, NA Group 4, NA Group 5, NA Group 6, NA Group 7, NA Group 8, NA Group 9, NA Group 10, NA Group 11, NA Group 12, NA Group 13, NA Group 14, NA Group 15, NA Group 16, and NA Group 17.

	91.	The method of claim 90, wherein the l	ost cell recombinantly expre	esses an
	HLA molecule which	binds the human cancer associated ant	igen.	
	92.	The method of claim 90, wherein the l	nost cell endogenously expre	sses an
5	HLA molecule which	binds the human cancer associated ant	igen.	
	93.	A method for treating a subject having	g a condition characterized by	Y
	expression of a huma	n cancer associated antigen precursor in	a cells of the subject, compris	sing:
10		(I)		
		identifying a nucleic acid molecule ex	pressed by the cells associate	ed with
	said-condition,-where	in-said nucleic acid molecule is a NA (•	
		(ii)		
15		transfecting a host cell with a nucleic	acid selected from the group	
•	consisting of a makes	dikis Cari komistrojis terebilik tipitrografi	•	Continues de conse
	Supering the second	d Miniko o samas lobrozina kusi posto spa si	_	e description de la company br>La company de la company d
	Programme Company	get the second of the second of the second		en e
		(a) the nucleic acid molecule identifie	ed,	
20				
			·	
		(b)		
		a fragment of the nucleic acid identifi	ed which includes a segment	coding
	for a human cancer a	ssociated antigen,		J
25				
		(c)		
		deletions, substitutions or additions to	o (a) or (b), and	1

on a within a beautiful of

(d)
degenerates of (a), (b), or (c);

(iii)

culturing said transfected host cells to express the transfected nucleic acid molecule, and;

(iv)

introducing an amount of said host cells or an extract thereof to the subject effective to increase an immune response against the cells of the subject associated with the condition.

94. The method of claim 93, further comprising:

15 conting a sent of a constant according

20

30

where q_{ij} is a substitution of q_{ij} . Here i_{ij} is a substitution of q_{ij} and q_{ij} and q_{ij}

product of the nucleic acid molecule,

wherein the host cell expresses the same MHC molecule as identified in (a) and wherein the host cell presents an MHC binding portion of the expression product of the nucleic acid molecule.

- 95. The method of claim 93, wherein the immune response comprises a B-cell response or a T cell response.
 - 96. The method of claim 95, wherein the response is a T-cell response which comprises generation of cytolytic T-cells specific for the host cells presenting the portion of the expression product of the nucleic acid molecule or cells of the subject expressing the human cancer associated antigen.

25

Company of the same

Adams and the second of the second

- 97. The method of claim 93, wherein the nucleic acid molecule is a NA Group 3 molecule.
- 98. The method of claims 93 or 94, further comprising treating the host cells to render them non-proliferative.
 - 99. A method for treating or diagnosing or monitoring a subject having a condition characterized by expression of an abnormal amount of a protein encoded by a nucleic acid molecule that is a NA Group 1 molecule, comprising
- administering to the subject an antibody which specifically binds to the protein or a peptide derived therefrom, the antibody being coupled to a therapeutically useful --- agent, in an-amount effective to treat the condition.
 - The method of claim 99, wherein the antibody is a monoclonal antibody.
- The method of claim 100, wherein the monoclonal antibody is a chimeric antibody or a humanized antibody.
 - 102. A method for treating a condition characterized by expression in a subject
 20 of abnormal amounts of a protein encoded by a nucleic acid molecule that is a NA Group 1
 nucleic acid molecule, comprising

administering to a subject a pharmaceutical composition of any one of claims 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 47, and 58 in an amount effective to prevent, delay the onset of, or inhibit the condition in the subject.

- 103. The method of claim 102, wherein the condition is cancer.
- The method of claims 102-103, further comprising first identifying that the subject expresses in a tissue abnormal amounts of the protein.

	105.	A method for treating a subject having a condition characterized by
	expression of abr	ormal amounts of a protein encoded by a nucleic acid molecule that is a NA
	Group 1 nucleic a	eid molecule, comprising
	• *	(I) identifying cells from the subject which express abnormal amounts of
5	the protein;	
		(ii) isolating a sample of the cells;
		(iii) cultivating the cells, and
		(iv) introducing the cells to the subject in an amount effective to provoke
	an immune respo	se against the cells.
10		
	106.	The method of claim 105, wherein the cells express a protein selected
	-from the group -	
	consisting of a Pl	Group 11 protein, a PP Group 12 protein, a PP Group 13 protein, PP Group 14
		p 15 protein and a PP Group 16 protein.
15		
	107.	The method of claim 105, further comprising rendering the cells non-
		to introducing them to the subject.
	108.	A method for treating a pathological cell condition characterized by
20		n of a protein encoded by a nucleic acid molecule that is a NA Group 1 nucleic
	acid molecule, co	
		administering to a subject in need thereof an effective amount of an agent
	which inhibits the	expression or activity of the protein.
25	109.	The method of claim 108, wherein the agent is an inhibiting antibody
	which selectively	binds to the protein and wherein the antibody is a monoclonal antibody, a
		or a humanized antibody.
	-	
	110.	The method of claim 108, wherein the agent is an antisense nucleic acid
30	molecule which	electively binds to the nucleic acid molecule which encodes the matrix

	111.	The method of claim 108, wherein the nucleic acid molecule is a NA
•	Group 3 nucleio	e acid molecule.
	112.	A composition of matter useful in stimulating an immune response to a
5	plurality of a pr	otein encoded by nucleic acid molecules that are NA Group 1 molecules,
	comprising	
		a plurality of peptides derived from the amino acid sequences of the
	proteins, where	in the peptides bind to one or more MHC molecules presented on the surface of
	the cells which	express an abnormal amount of the protein.
10		
	113.	The composition of matter of claim 112, wherein at least a portion of the
	_plurality of per	otides bind to MHC molecules and elicit a cytolytic response thereto.
	114.	The composition of matter of claim 113, further comprising an adjuvant.
15		
٠	ea l 15 : of Josies a	The composition of matter of claim 114, wherein said adjuvant is a
4.*	saponin, GM-0	CSF, or an interleukin.
	, • · · ·	
:	116	An isolated antibody which selectively binds to a complex of:
20		
	•	(i)
		a peptide derived from a protein encoded by a nucleic acid molecule that is
	a NA Group 1	molecule and
	1	
25		(ii)
	•	and an MHC molecule to which binds the peptide to form the complex,
	wherein the is	solated antibody does not bind to (I) or (ii) alone.
	fillorotti mio it	
	117.	The antibody of claim 116, wherein the antibody is a monoclonal
31		himeric antibody or a humanized antibody.

TPPPQPRITAQPQKREEQTKKENEEDKLTDWNKLACLLCRRQFPNKEVL 970EUVERLESEEEKLADWKKMACLLCRRQFPNKDAL 662	IKYSRETDSDRKLVDKEDID 1050 KKQFDAGTVNYEQPTKDGID 742 RKYGGISTASVDFFORMUSIG	RRVMFARYKBLD 1123 RKAMFARFIEME 815 HKTMVTRFHEAQ 389
KEESPPPPRYVNPLIGILGEYGGDSDYEEEEEEEEGTPPPQPRTAQPQKREEQTKKENEEDKLTDWNKLACLLCRRQFPNKEVL 970 PELVRNUDEEHPLKRGLVAAYSGDSDNEB	IKUQQLSDLPKQNLETHRKTKQSEGELAYLERRERE.GKFKGRGNDRREKLQSFDSPERKRIKYSRETDSDRKLVDKEDID 1050 VKUQQLSDLIKQNADIYRRSKLSEQELEALELRERE.MKYRDRAAERREKYGIPEPPEPKRKKQFDAGTVNYEQPTKDGID 1050 ITHQQLSGLHKQNLKIHRRAHLSEHELERLDKANDBAAERREKYGIPEPPEPKRKYGISTASVDFFOPTKAG	TSKGGCVLQATGRIKGTGTGTGTAKSEEAEGRARGPSVGASGKTSKRQSNETYRDAVRVMFARYKRLD Hentgnkhlqamgnregsglgrkuggttapteaqvrlkgaglgakgsayglsgadskdavrkamparfibme Strigsbyfgamgnkegsglgrkr@gtvtpteaqtrvrgsglgargssygvtstesyketlhktmvtrfheaq
HY LD-12 LUCA15 	LUCALS LUCALS DXSB237F	HY~LU 1:: LUCA15 DXS8237E

TLÄRRIÄRI. VANGARBÜB. VANATERBIÄRBÜME

C

O

R L P G S .. Q B SEE G Y

з к е ү в в у в в

101

434

1400

1500

3005 1100 1300 300 400 1200 200 5:00 139 900 700 000 900 KACGAGGAGGGAGGATTGGAGGCTTCGGCCCCTAAX-TAGTGCTAAAGGAAGTTGGTATATAAAAGGAFTIACTTG1TGGGGCCCTGCTTGATAAAAAA KICCETTANGAGECATGCTCAMSAGAGACTCTCTCCTTGC ACHTACTTGCACTTYCCCTTTCATTTCCATTTCCATTTCCACGACATTCCACACTTCCACA ATGINGACCHECTITICAGCIATEGIAGE AGACGIACKECACKEG CACIATOGACGAGGGGAGGGACCTCKACA CATTICAGGGGGGAGATIT CACTTINGMOGOCCGNOCOPICAGGTACTNGACTTINGACTTINGGNIPACGCACATTICAGAGGTACACACACCATTINGACTOR GRODA PPS DE REGETTIVA GOTT TO LET TO LETEN GREECE CONTROL SANT DE LE LE CENTRE DE LE LETEN GENERALES DE LETEN GENERALES DE LE LETEN GENERALES DE LETEN RESATTT FAGGGGCMINGREFATGGGATCTTGTANGFATTTTAANGATARGGAGTTGGCCCCCCCAAATATTTTGGATTACA TCAGGGCTCTCTAC acangatagagancattetegtatsaatgtgaagerekiagagaalaaniveragacagerecatacgayagaaalahteetttivgent hengaagabaa AAGATANGTCRCAGCTTI CTGGALGTGAAGAGAGAGT TCAGAFGCIKKHICTGTTFAAGAAGAAGAKIGCKTI CTGACTTTGFT (KIGUX|RIAAGAAGA TTACAGAARCATRINGFACGTGATGTGGGTTAFGGTTKKCAKAAAGKUKATGYTTBGCTATFKKCAGAGCAAGTGTTTFCCAAKFKKAKTGCG c c **⇔** (,) O c ulo r K H X S AUTIHAHAAAH v: = < STHUBTITERE <u>..</u> RGREAPHHRYRDRO သ ء ن 2 0 0 ت ۳ ي ن G R U F P C R U SS L P F S O A G L E R R E ĸ 8 H C C P H G c 20 73 H W V W R ئ*د* ن C H C ςŋ GTSHDY 42 经 Ü S × H O E R بر دع S R E S r S ၒ S S 7 0 ະາ

103

7

67

1.34

167

201

234

2.6.7

301

334

367

CHORESTON OF

を記録を含むによりで

792 (cont.)

ACAGTETGAGEAGGTAGECTATET 3109	CTCCAGAAAGGAAATTAAATAA S P E R K R 1 K Y	CCAACAGSCTACTGGCTGGAGAAI; 33500	GTTISGNIGCETCAGGANGNACCAGGAN 3400	ANAGGAGACKAGTTCCATGGSATACA	TICITITCANTGEGATTAAAAAAAA
K E V 5 1 K B Q Q L S B 5 B B R O N L E L N R X 1 K Q S E Q E L A Y L	CHINAGGRICIALUNG RICHARACHTARACHARACHARACH CATTUK CALHUT CALTUTTUK CALACTUAGA A COLONIA A CALACTUA CALACTUAGA A CALACTUA A CALACTUAGA A CALACTUA A CALACTUAGA A C	TOTATION TO A TO BE BOUND TO A TO BOUND TO BO	GGACAGCCTGGGATATGGCCATCTTGGATTGGTTCATCAGGAGGGGGGGG	E Q S H E T Y R D A V R R Y H F Y R E L D 111	ACCICCCCCTCTIGITITGIT TGICTCTCCCT FICTITICATICATICATICATICATICATION AND MACTITITITATION AND ACCICCCCCT FINANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
MANAMOTICIGATCAAACACCAGCAGCTG R F V E I K B Q Q L	CHANAGABAGAACHACHAAGGAAAGTTAA E K R E R C K F	TUTACOGRAMITUACACITUATE STATES TO ST	GGACNGGCCTGGGATATGGCCATCLTGGA G T G L G Y G II P G	FARING STANGENGATIVICGALATIC	ACCICCCTCITCITITGITAGICTCICCT
196	100:	1034	1067	1101	٠

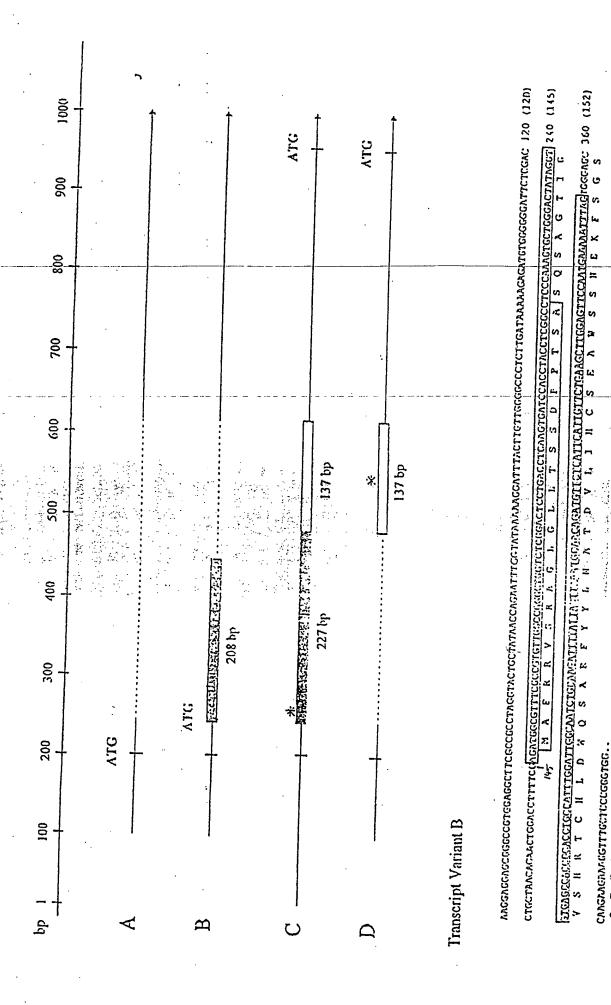


Fig. 30

QEERFNP

2275p excn:

GACTGGGTGAAAGCTTTTCTGCAGCAGTCATGTTAAAAACCTTGTGTTGACTTTCCTCG AGAACTGGACCTTTTCGGACTGGGTGAAAGCTTTTCTGCAGCAGTCATGTTGAAAACC

CGTGTTCTGAAATGGGAGCATAAAAGT TACTCCGCCACTTCGTCTTAAAATAGCAAAAC 137bc exon:

ATCTAGGACCTTGTTACAGAACTCTGCCAAAA GATTAGAGAAGAATA

TGC TGGTGTGTAGATTTCAAAC TCTCTGGACAATATGAATAACACTGTCTTTGTTTCTAC

^	SK-LC-2	-TC-3	9-J7-	-LC-7	-LC-14	LC-17	3-62		(ر <i>ن</i>	H740	
КЬ	S	S	SK	SK	SK.	SK-	KN	Calt	41-2	.u-1	-io	
9.4 —											2	
6.6 —												: !
4.4 —												~~

Figure 4

Figure 5

SEQUENCE LISTING

<110> Ludwig Institute for Cancer Research
 Old, Lloyd J.
 Scanlan, Matthew J.
 Stockert, Elisabeth
 Gure, Ali
 Chen, Yao-Tseng
 Gout, Ivan
 O'Hare, Michael
 Obata, Yuichi
 Pfreundschuh, Michael
 Tureci, Ozlem
 Sahin, Ugur

<120> CANCER-ASSOCIATED NUCLEIC ACIDS AND POLYPEPTIDES

<130> L0461/7039/JRV/ERG -- -- --

<140> Unknown

<141> 1998-07-15

<150> U.S. 08/896,164

<1515 1997-07-17

<150> U.S. 60/061,599

<151> 1997-10-10

<150> U.S. 60/061,765

.<151> 1997-10-10

<150> U.S. 08/948,705

<151> 1997-10-10

<150> U.S. SNU (LUD5506.1)

<151> 1998-06-22

<150> U.K. 9721697.2

<151> 1997-10-11

<160> 816

<170> FastSEQ for Windows Version 3.0

<210> i

<211> 474

<212> DNA

<213> Homo Sapiens

<400> 1

TT U 27/UT#UJ

エレエノレジノリノエマリノ

```
totagactgt cotcoccate tgtggnacta acactateat acagtettgt cetatagggt
                                                                       60
ctctggantc tgttcttcac acagagctgg gctcgagttt tcagtgcttt tgaatccang
                                                                      120
cgctctgtct ctgggacngc ttcattcaag tcttgactta cgccatcttg gcaagatgtc
                                                                      180
tgcttgccat ccaanttctc catggtatcc cctttanaga cttcaccaag agatgttctt
                                                                      240
ctctcaaaga tgttgttatt attgntaact tgantcccat tttgcttcag taagcctgaa
                                                                      300
tacctcaget tecaaatete taateegeae ttggaggeet tgeaetteea naagangnge
                                                                      360
tttttcaaat cttcnagttt cnttcttctg ctcctgtctt tgnatagatc aanctcnttt
                                                                      420
tgntgnnagt centnntnaa ententtgen tgntggnngn tentttnean ngge
                                                                      474
      <210> 2
      <211> 1054
      <212> DNA
      <213> Homo Sapiens
tctagactgt cctccccatc tgtggangnn acactgatca tatcantctg ggtcctanca
                                                                       60
gggtctctgg cgtctgtgct tcacnntant agctgggctc nantctncan ctgcttttga
                                                                      120
atccacgngc tetgtetetg ggactgette attenantet tgactnaggn catcttggca
                                                                      180
agatgtctgc ttgccatccn agtnctcnat ggtatcccct ttcananact ccancnanta
                                                                      240
gatnttctcc tctcnaanat gttgtccncc ntcgtnanct cgagtcccat tntgcttcan
                                                                      300
taccetnant acteaenete canateteen nteeneacet ggngggettn etettnecae
                                                                      360
canatnactc tttcncnnaa tcttctacat tctctctttt ctgctccagt ctnttgatca
                                                                      420
aaccnccctn nggttcnana tccncgatna acttctctgt cnngtngtnt ctcttttcct
                                                                      480
enggeegata ttggeetenn etecentnnn aancateee eenegtgtna nnttntttgg
                                                                      540
ngcccccent attettecae cectaaattn cetttntece ceaatttteg etgtantegn
                                                                      600
ttctccnctc ccannnccnc cncntatctn cccccncntt ngnntccccc cttnnaacnc
                                                                      660
condition character aacctaccet connection annitioned telectrica
                                                                      720
nntnaanent ntteacetae ngacattnat nnnntnenen ttentennaa teanattetn
                                                                      780
tnetecenne etceatetna tttetninet etatetnnen nattennete attatteent
                                                                      840
ntactetnne actetteten ennntacatn neancetece anacanence etecanantn
                                                                      .900
tnttetetet teettetee ecteeteenn etceccaete etcetteece entettetne
                                                                      960
tachtnthtt teneteetth natenceete atetteteee tteteecaet catetantae
                                                                     1020
ctccncnttc ttnantccnt ncctttntct antc
                                                                     1054
      <210> 3
      <211> 441
      <212> DNA
      <213> Homo Sapiens
      <400> 3
attttgttgg aattttatct ttggcagata ggcagatata tttttgtgca tgtaaacaat
                                                                       60
cacatatata taaagctata taactgtaca tttttgacag ctttgtaatc acaggttgct
                                                                      120
ctgtcgtttc cctccataaa tggtttaatc tttgtttcct tcgctttttt tagagttgtc
                                                                      180
aattcatatt gccctctcca gtttgtacag tttcttagat gcttgttact tttaaaaagg
                                                                      240
atgttaggag aattcatttt ttntcataaa gaaatggaac actatttaaa ataaatttag
                                                                      300
enecttgeaa etagageaat etttttagtn ntacetetee taacegaeta attenacaga
                                                                      360
atctttgcan aaattacaca gtattacttt tgcntgtgtg tgatnaccac tgttcgtcng
                                                                      420
ccccttgaan gtttnacatc t
                                                                      441
      <210> 4
      <211> 247
```

<210> 4 <211> 247 <212> DNA <213> Homo Sapiens

<400> 4

11 U 27/U74UJ

A しょ! いじょい! A マリ!ノ

420

```
accgctcacc gcagacgtgg tggctgcagt cagtcttccc gagtgaggga tttcgccgcc
                                                                                                                                         60
          cgctttcagg cccgtttggc ttaaataact gtgattgatg gccatgcngg anaaatatcc
                                                                                                                                        120
          aactgagggg atctctcncg tcacttcacc gagttccgat gtgattcana agggcanttc
                                                                                                                                        180
          cctggggact gaatggcata ccccantttt ctcggatccc tttcngagcc gcttcaatcg
                                                                                                                                        240
                                                                                                                                        247
                     <210> 5
                     <211> 486
                     <212> DNA
                     <213> Homo Sapiens
                     <400> 5
          gaggaaagga acagatacct gccaagtcaa tcagagaatg gcggtaaaac ttgatggtta
                                                                                                                                         60
          gccgtctgtc tgttcatttt tatgaatgcc actatagaag taatctttag aaactggagc
                                                                                                                                        120
          tgttttcagt ttaatgacgt ccatggaatt aaccggattc attaataacg gcatcaggaa
                                                                                                                                        180
          gagcattgtt tgaaggatcc tctgcctagt ctattaatca gtttcctttt agacaggtgt
                                                                                                                                        240
          acaggtgatt tctggccctc attcacagaa tagaatagtg gtcgttgaga agcagaccta
                                                                                                                                        300
          gcacctagca agtottcaga ccagtotttt aagtaatttt tattccctga gaagaaaatt
                                                                                                                                        360
          gaagaaacaa ttggggcaaa ganatttgtg gggttttact anaaagatct cnataaagca
                                                                                                                                        420
          aggactgtca ctctattcct cattcatatg agggttcaca ttaaaaatga cagtgttaca
                                                                                                                                        480
                                                                                                                                        486
                  ~~~~6
                     <211> 766
                     <212> DNA
                     <213> Homo Sapiens
                    and the state of t
          <400> 6
   ggggteggag tetgggggtt egegeeégée gaceegegee etgeteeete teageacetg jaggt60gags etgege
         ggcggacgaamatgaccatta agaagtagat gcccagatgc aaaagtgatg aaacagtcca
tttgtcataamagtaagatgc agctgtggca tgtcaaccag cttggaacaa aattgtatct dc1805ammagranga
   gtttttctca gaagagaatt ccacaaggtt aaatcagcaa acaaagaaaa catggtattt att2400ca gaagaaa
 Tefrentgaaatatga ttaaacteet gatgetgeag eagaggetaa gaatattaat ggeeagatet saassootas etsaasse
          agtgcacaca tggtcttctg aagaagccat gggtagctgt tgtagctgtc cagataaaga
                                                                                                                                 ्राव्य360मध्य रक्षत्र र्गट
          cactgtccca gataaccatc ggaacaagtt taaggtcatt aatgtggatg atgatgggaa
                                                                                                                                     420mm anning
          tgagttaggt tctggcataa tggaacttac agacacagaa ctgattttat acacccgcaa
                                                                                                                                        480
          acgtgactca gtaaaatggc actacctctg cctgcgacgc tatggctatg actcgaatct
                                                                                                                                        540
          cttttctttt gaaagtggtc caaggtgtca aactgggaca aggaatcttt gcctttaagt
                                                                                                                                        600
          gtgcccgtgc aaaaagaatt atttaacatg ttgcaaagag attatgcaaa aataatagta
                                                                                                                                        660
          taaatgttgg tggaagaagc caatttgtag aaagaaataa tcatcaagac aagaattgga
                                                                                                                                        720
          agtecetaan aacaaceteg aaacaactae aactecaaga ttttge
                                                                                                                                        766
                     <210> 7
                     <211> 567
                     <212> DNA
                     <213> Homo Sapiens
                     <400> 7
          gagcacatgg cccaggggtg gagccgacct ccagacacca gaagaacaac ctaagttcct
                                                                                                                                          60
          cccacacagt cagacttgaa actagaggac agacagagaa ccaggaatgt ctactttgcc
                                                                                                                                        120
          cccatgagga atagaaacaa cttcctgact atcccttggt gggacaggag gactttcaag
                                                                                                                                        180
          aggatgaaac tctgaaaaag agtttaccct gtgattaatt aaatgaaatc ctcaatggcc
                                                                                                                                        240
          agagtaatta tacaaagatt aagtgtcaaa tgggagagag tttacctgga agcagtaaga
                                                                                                                                        300
          ttcgttgctt ttattggttc atttgttttg ttttctgctt tcggtagaaa tggatcttca
                                                                                                                                        360
          cgagtcagtt gaatttgatt aaacagaatt tagcatttca gccatttggg tgacagtggg
```

WU 77/14400 10/14400

```
tgcattctaa agtcagcaca ccacccaaag tgatatatga ggtggaatgg gaggggtggc
                                                                                                                                                                                   480
aggtattcag cttaaaggac cgggatatca tgatcagtgg ctactgtttt acttttaaaa
                                                                                                                                                                                   540
accttccttt tctgggtcta gactcga
                                                                                                                                                                                   567
               <210> 8
               <211> 730
               <212> DNA
               <213> Homo Sapiens
               <400> 8
gegaggetea agegggeete tgeeeceaee ttegataaeg aetacageet eteeqagett
                                                                                                                                                                                      60
eteteacage tggaetetgg agttteecag getgtegagg geeecgagga geteageege
                                                                                                                                                                                    120
agetectetg agtecaaget gecategtee ggeagtggga agaggetete gggggtgtee
                                                                                                                                                                                    180
teggtggaet eegeettete tteeagagga teaetgtege tgteetttga gegggaacet
                                                                                                                                                                                    240
tcaaccageg atctgggtac cacagacgte cagaagaaga agettgtgga tgecategtg
                                                                                                                                                                                    300
teeggggaca ceageaaact gatgaagate etgeageege aggaegtgga cetggeactg
                                                                                                                                                                                    360
gacageggtg ceageetget geacetggeg gtggaggeeg ggcaagagga gtgegeeaag
                                                                                                                                                                                    420
tggctgctgc tcaacaatgc caaccccaac ctgagcaacc gtaggggctc caccccgttg
                                                                                                                                                                                    480
cacatggccg tggagaggag ggtgcggggt gtcgtggagc tcctgctggc acggnagatc
                                                                                                                                                                                    540
agtgtcaacg ccaaggatga ggaccagtgg acagccctcc actttgcanc ccanaacggg
                                                                                                                                                                                    600
ggatgagtet ageaeaegge tgetgttggn naagaaegee teggteaaae gaaggtggae
                                                                                                                                                                                    660
tttgagggcc ggacgcccat gcaagttggc ctgccaacaa cgggcaaggn gaatatcttg
                                                                                                                                                                                    720
cgcatcctgc
                                                                                                                                                                                    730
                <210> 9
                <211> 585
                <212> DNA
             <213> Homo Sapiens
            which is the properties of the contract of the
             Q<400> 9 PARTICLES OF THE PROPERTY OF THE PROP
                                                                                                                                                                                      ataatttgtt teattttcaa ggcacaaaga gtttatgtca atcattttaa tgtctaagaa
                                                                                                                                                                                   5.60是"我,为海海的发展化
 tacaaagtta gcactagtaa catctggtag tctaatcatt tatcatgctt aaatgtaaca
                                                                                                                                                                                    120000 100000
 ttacangnac tacattttaa aatetgeece etaaceagat gtgaaacaac gtggacaagg
                                                                                                                                                                                    180% के अस्वविधार
 gtgacatgtg ctagacccaa tctccaaaaa cgtatggttg acaaagacag ctgactgctg
                                                                                                                                                                                     240 ·
 gggtaaaact gcagcagtca taatcgaaga gcgaaagagg ccactctatt aaagactttg
                                                                                                                                                                                     300
 tttcttttgc tagacatttt tcacctaatc ccaggatagt ttctgttaat gcatcttact
                                                                                                                                                                                     360
 ctctttcaaa cgaatcgtcc ctagagcagg tgtacacatt aaaaatgagc tttatagcat
                                                                                                                                                                                     420
 caaacacata ccacaaccaa ctctacaagg agggttttct gtaagatgtg tacgactgtc
                                                                                                                                                                                     480
 cgaagaacac attctggctg ataagtctca agctcctgtg aggtcctgat gagtatctaa
                                                                                                                                                                                     540
 acaacctcac attttctctt ccacgcctan ggttaagggc agcac
                                                                                                                                                                                     585
                 <210> 10
                 <211> 661
                 <212> DNA
                 <213> Homo Sapiens
                 <400> 10
  totagagtto gcacggaaac acgaagaata ggtggtgcat attttctggt ttggangtgg
                                                                                                                                                                                        60
  atccancett etgeateetg tgacaaaata ttanttatac ettetaaagt atggcaatqt
                                                                                                                                                                                      120
  caancatttc atttanatan aananattca ccaccaaata gtttgacacc gtgtctaaag
                                                                                                                                                                                      180
  atteggaata tgtttgatee cgttatggaa ataggggate agtggeattt ggeaatteaa
                                                                                                                                                                                      240
  gaagcaattt tanaaanatg cantgataat gatggcattg ttcacattgc antanacaaa
                                                                                                                                                                                      300
  aattcacgtg agggttgtgt atatgttaaa tgtctgtctc cagaatatgc tngaaatgct
                                                                                                                                                                                      360
  tttaaatcat tgcatngctc ttgnttttat nggaaattgg ttacagtaaa atatttacqa
                                                                                                                                                                                     420
   cnanatagat accaccatcg ctttccccan gctctcactt ncnacactcc attnaanncc
                                                                                                                                                                                      480
```

```
atcaantatc atatnaactc natgtctcat cttcgtcttc ngactggnct aaccaattct
                                                                                                                                                                                                       540
                            caanggnant teetgaaaan attttettee atttetaana etgtttnttt acnatagnna
                                                                                                                                                                                                       600
                            aattcongtt tggctttttg tottcocttt ttaaatcott tttgtanntn atattttant
                                                                                                                                                                                                       660
                            g
                                                                                                                                                                                                       661
                                           <210> 11
                                           <211> 1162
                                           <212> DNA
                                           <213> Homo Sapiens
                                           <400> 11
                            tetagagggt ttttetcagg ggettetett agtgetgtng etgetgeagg etgegeaggg
                                                                                                                                                                                                         60
                            cctccgcaca tgcgcggata aggccacaca gctggatgct agtctccang gaggtgctag
                                                                                                                                                                                                       120
                            ageceagtte ageagaggee cangteaget tetgeaagag ggetgtetgt gtgeaggeea
                                                                                                                                                                                                       180
                            tgacatetgt atttggagge acageangag caggtggeec etgggetgee ttnagteetg
                                                                                                                                                                                                      240
                            ctgcagetcc ctcacagtgc tccggacnan gtactggggg ctggggcgca agtcnaganc
                                                                                                                                                                                                      300
                            ccanggggan ctctgaggct gaggccanct ggtgctcccg agcttgggan aaggcaacct
                                                                                                                                                                                                      360
                            gngcattcan ancgggatta tctttatcca cgtctgantc tagttcctga caagccacgc
                                                                                                                                                                                                       420
                            aatanatttt ccgctgtttg tcttggagga ngatcgtccc gcagtccgca cacgtctcgc
                                                                                                                                                                                                       480
                            ccancatgeg gtaacegege aacanatant encecatgan eegggagatg egatettgee
                                                                                                                                                                                                       540
                            getecegten egeetgeane acttegtete egeeteaate gggggetece aaganaante
                                                                                                                                                                                                       600
                            gtcnacttca actccgttca agggccatgt ttnccgtttt tcaaccgccc gggctcaaaa
                                                                                                                                                                                                      660
                            ggaaatttac ftcaaaaccg gnancngccc tcccgcttcg gctccgcccc ttccaataac
                                                                                                                                                                                                      720
                            ttccgccgga tnaanggcng accttnacnc cttaaccttn tcctcaanaa cctccccttt
                                                                                                                                                                                                       780
                            tecceggggt tggnneettt teengntget taccnaanaa acetttettn tngggaanne
                                                                                                                                                                                                       840
                            cttccnttna aacccgggaa ttcccaaggg gaacaaaaaa ctttcccnaa nnccccaaaa
                                                                                                                                                                                                       900
                            gcctccctaa aggaancntt cccctttggt aaatneneet cccgnttccc aaaaaacctn
                                                                                                                                                                                                       960
                            gaaaattgnc ctnannnggg ggntcacccc ctttcnnttn cctttcntgg nntttaaang
                                                                                                                                                                                                    1020
                            gnnaacnach tttgctttta aaaaaantne ceneettgge ntetannetn eeeectggg
                                                                                                                                                                                                    1080 -
                            gttccccttt ntgnnnncaa nnengnggnn natnnnnttc nttacaaaat nattnncanc
                                                                                                                                                                                                    1140:
with was the contitue aaagaaannitotg properties parties made properties and the contitue of
                                                                                                                                                                                                    1162:
                                                                         Control of the property of the stage of the control of the stage of th
                                                                      in a matter of a good particle is a more of the contrary of the first sea of the first
                                          <210> 12
                                          <211> 850
                                                                                           化环烯二甲二十二烷基化 医克拉耳氏 计电子电子放射器
                                                                                              Control of the Contro
                                          <212> DNA
                                           <213> Homo Sapiens
                                           <400> 12
                            tetagaetgt cetececate tgtggaacta acaetateat acagtettgt cetaaagggt
                                                                                                                                                                                                         60
                            ctctggcgtc tgttcttcac agagagctgg gctcgagttt tcagtgcttt tgaatccagg
                                                                                                                                                                                                       120
                            cgctctgtct ctgggactgc ttcattcaag tcttgactta ggccatcttg gcaagatgtc
                                                                                                                                                                                                       180
                            tgcttgccat ccaagttctc catggtatcc cctttagaga cttcaccaag agatgttctt
                                                                                                                                                                                                       240
                            ctctcaaaga tgttgttatt attgttaact tgagtcccat tttgcttcag tagcctgaat
                                                                                                                                                                                                       300
                            acctcanctt ccaaatctct aatccgcact tggaggcctt gcacttccac aagatgagct
                                                                                                                                                                                                     : 360
                            ttttccaaat cttctatttt ctttcttct gcttcctgtc ttttgatgaa atcaagctct
                                                                                                                                                                                                       420
                            ttttgttgaa aatccttgat caacttcttt gccttgttgt atttcttttc caaggcctga
                                                                                                                                                                                                       480
                            tactggcttt gagtctcttt gagatgctca ttcactgtgt ggcataatgt ttgggcctca
                                                                                                                                                                                                       540
                            atccantanc tttccaactt caacattctt tccttantct cttctangtt ttgttgngan
                                                                                                                                                                                                       600
                            ttgggttttt tctaanttcc caactcactt tctcctccgt gcccnaattc ccgggtacca
                                                                                                                                                                                                       660
                            aacacaaatg ggnncgcctt cccnannaaa aannnaaaaa agctcntcca aaatctcngn
                                                                                                                                                                                                       720
                            nnctttggnn taatcaatgg ncaananctg tttccctgnt ntnaaaattn nttntccgct
                                                                                                                                                                                                       780
                            caaaaatttn ctnanantna cttttcaaat ttttttgcgc ccnccgttnc aanccnaana
                                                                                                                                                                                                       840
                            ntannccaat
                                                                                                                                                                                                       850
```

4 6 6 6 6 C

7.35

1986年 的东西。

```
<211> 372
      <212> DNA
      <213> Homo Sapiens
      <400> 13
totagaatat ngaattttcc ctctttaaca cangggccct ccttgtcatt gaccttagct
                                                                        60
aaaccatggc aattcataaa tagaggaaac attaatgaat taaaagcatt ccttatttt
                                                                       120
taactaatat ttgtacattt tcttagtctc tttccaagtc tttgcctctt tttttcttt
                                                                       180
atttttattt tttcctttga cagatggtat cccttcctgg atcattcatt tcaccttggt
                                                                       240
ttctaacttt aggtttactt tcacttgtta tttgacttag caggtgcaac anaaacaaga
                                                                       300
aacaaatgtg cccaccccac tttccgctta actgaaaagc ttaaaataaa tttctgaatt
                                                                       360
atgtanaant to
                                                                       372
      <210> 14
      <211> 1167
      <212> DNA
      <213> Homo Sapiens
      <400> 14
tctagactat ntgtcctttg ctcttcaaaa ccaggattcc ctaattctga actgcttata
                                                                       60
agatagcaaa acaagtctgg ctaaactaca gtcaagagct taggatctat ggaagccaag
                                                                       120
aaggeecagg geteeatgaa tgggetggge aggggeacga ggeettgeet ttgtetgaga
                                                                       180
agtecteaca ceacagetga teagatggaa acaatgggga ancagagttt ceeggtgeeg
                                                                       240
tettteecca geccagatte caccaagege tggaaageag agetgggaat eteccaagge
                                                                       300
agagteette cagettteet ecceetcaac tteacactee cetacetgtg getetggaag
                                                                       360
gagtcacact tgaacctcaa ccaaacttcc caatatcagt tggaagtcaa aaagatgaan
                                                                       420
cctttctttc tggactttta gctacaaagg ggaacttcct gtgccaagcc ctggttcctc
                                                                       480
ataccccaac gagtgctgtg ggtttcaaca ngtcttctct aaaaagggtg ccccanggtt
                                                                       540
attgtgtgga gtctanggaa nctcatatcc tcaggatgat catttgtgtg ttggtccagt
                                                                       600
gaaagcattt cccaactggt ccttccataa aactggggta tttcaantga ncacannaat
                                                                       660
tcaacctatg gatttaaang ttnnanancc anaaacctta ngcaagtett taanaantan
                                                                       720
tgcanngtta attaaactta nctaagntgg ctaatttntt attcaangeg gggcataagg
                                                                       780
tttcatcggc tctaaattgn ttaanatgnn ctgtaagntt gtngaanata tatccctggg
                                                                       840
aagntnetaa aatangtttt etngaactan engtgetnta naanetnngn ggggntnang
                                                                       900
ggggatccgg ggatccccan caatanaagc thtccngnnt ngcncctnca aaggngtaag
                                                                       960
ccctgttngc ttnaaaanaa tccttncttg caancnaatg gatgtcntgg ggtancntgg
                                                                      1020
naacntttgg tncccntnnn cctttgnnnn tatnaantnc nggnctgttc tccaactnna
                                                                      1080
aaccttnnnn nnnnaagacc ccttngnaan accctttttg ntnanttttt cnncntgang
                                                                      1140
ngaanatnnc tnnccncnnn antnttg
                                                                      1167
      <210> 15
      <211> 1148
      <212> DNA
      <213> Homo Sapiens
      <400> 15
tctagatttt tttttttt ttttgaattc ttangcttgt tttacaaaac tttttattca
                                                                        60
tcagagctgt agtgaaatat catcattgta attgatattc tagcactaca aaaggcacaa
                                                                       120
tgaagettat ttagtteeag taetggaaat eagaggtaae ageacateet teettggaca
                                                                       180
tgctttactc tgctgtagtg gtcatcacag ttttgatttt ctggataaga agttcaccac
                                                                       240
agcatttgtg cattcatctg atagccatct tccctgaagg acattgcatt cttcagcatt
                                                                       300
aacagcgtgt antittictc tetetetitt eetgattace tetittgaaa tieteaagae
                                                                       360
atttggggga agetttgeaa atgeetteag eetggteeag aettetttet gaaaagtget
                                                                       420
atcagggaaa acttcagtaa caagtccttg nagcacatgc ctctcccgct gttaacttct
                                                                       480
```

ttccaaaaat aagcatctct gttgccttgg ctgggctcat tatcttccgn aaagtgtaag

```
anggagcatc cttccgggac tttggnctan gtgacctaaa tggtgttatg aaaatgttgc
                                                                                                                                        600
                   cctgtcagaa tgcatacacg ggaatcnnnt cncccaangg agggtnaacn ggnnatnccc
                                                                                                                                        660
                   anaanctggn ccanttgnca nctgnannnc anangncttn gggnaaaatc naatnnnnnc
                                                                                                                                        720
                   aancccaaca anatttcccc nccanttnna acnggnnatt aantttttaa cctttccncc
                                                                                                                                        780
                   tccnantncc aaccaagggg ggaaanntcc aantnnnnnt tnncccnnat taattcccaa
                                                                                                                                        840
                   nnancnggnn nntnnncnnc nattteceng gtnanaacna ettnntnntt nnnntecaac
                                                                                                                                        900
                   ctttccngng naanntttna agtnnnacnc cannantttc cagtnnttna nnccnaannn
                                                                                                                                        960
                   nttaagggnn nntttccctt ttttgggncc nnnnttannn annnnnctt ttgnnnannc
                                                                                                                                      1020
                   naacetteeg nngggneaen nnenagnnnt tteaaaanee nanttnnntt eeennnnnn
                                                                                                                                      1080
                   ntnnecaann nngnneanet gnntnnnngg tnecantnan nngnnntena anenngennn
                                                                                                                                      1140
                   ncnnnttg
                                                                                                                                      1148
                             <210> 16
                             <211> 1113
                             <212>- DNA---
                              <213> Homo Sapiens
                              <400> 16
                    totagaaggt gotgocagac ggoccottga gotgggotto cogcaccoac ottotgotco
                                                                                                                                         60
                    actgtettet ccagegactg gatgegeate tgeteettee teangetgge etggagggee
                                                                                                                                        120
                    aacgetteeg eetgggeett geteeggaee tgggegatet eetegtttge canetgeage
                                                                                                                                        180
                    tteteeteeg egtgggeett canggettgg tacetetgge eeteetgggt gateettgee
                                                                                                                                        240
                    angtaatcot ccacgcactt-cttcagtgac-tcttcgttct-tgcggtagcc-ctcqatcacc-
                                                                                                                                       -300
                    tctttctgtt tctcaaaacg cttgaagagg tcggagaagg acttctccat ggagttcana
                                                                                                                                        360
                    tctgtggtaa gttggtcttt ttcttttana actttctgga tttcagcttt ggaaagttcc
                                                                                                                                        420
                    ttctgcttct gaacttcctc catggcctgg tacacaacct cttcgaacct gtccatgatc
                                                                                                                                        480
                 tteeccagtt ecaaggitet teeegiggag etecteaeae eigeteetea geleeeggit 300,540
   ctcctcctgt gtcgccttta ccactgcatc caaagtcctt ctggctgtac tgggancaag cmac600 mg
and the castatha ngtecgggtn gasaagggtg ggccccaag cgcgggaaaa actgggggt www.660 his regionar
and the control of th
o o solution as getegreea, attiteeggaal ettggegtaa ateannggne aataaetgtt teedengtgt spinning of security out o
    analysis of the anathrit tracgerea; annitgerea annitatitt naaattitin enneegett 2,454.840 bbs. 1,25 s. 2.6
to the same of the actional mathaness of the mannet became cannot take a congress the action of the section as
  and the continuing grantiting occaminate anamentac chanasacce technique of 1960 grantities.
      ntccnaaaac ccttttcaaa anttaaacct aannnnanct ttnnnntaan ccaaanngtt 1020
                    ncccaaaaan ancttngggg tnaccaaggc aananngttt cccnggttaa aattttttac
                                                                                                                                      1080
                    ccgcnaaaat tcananaaan tntnnnttan ntt
                                                                                                                                       1113
                              <210> 17
                              <211> 731
                              <212> DNA
                              <213> Homo Sapiens
                              <400> 17
                    tetagageet teeeeggeea tetacaggea ggatgegget gggaaaaaga caactggaat
                                                                                                                                          60
                    ttctcgaagg ttgatggtcc gcacggttga ngattctacg tggttctctt ggttcccctg
                                                                                                                                        120
                    gtgtgtgtgt gtgtgtggag gangccgcgg cccttagatn accttcttga gctcgtcgta
                                                                                                                                        180
                    caggaccage acgaangege ecceeatgee ecgeaggacg ttggaccaeg caccettgaa
                                                                                                                                        240
                    naaggeettg cececeteat etetgaagat etteeteeaa cantegaegg tgeeegtgta
                                                                                                                                        300
                    catgatgtca geteetttge geeeggactg cateateatt egeegeegea eegttenaan
                                                                                                                                        360
                    gggtangaca ccacgccggc cacngncgtc acggtctgcg cgatcatcca gctcaccacn
                                                                                                                                         420
                    atgtgcgtgt tcttggggtc ngggancatn cccttggccg tatcgtanac nccgaantaa
                                                                                                                                         480
                    geogeoeggt atatmatgat geoetgeteg tgeogaatte cegggtneca acacaatggn
                                                                                                                                         540
                    negetteeeg aanaaaaaaa ataaaaanet negteeaaat eteggaaett tggentante .....
                                                                                                                                        600
```

660

atgggcatan ctgttttccc tgtgtgaaat tntttccgct caacaatttg ctanaantaa

ママシ ノノノリマルシン

1080

1106

aatggtcttt aaaaaaaatt ttggntnaaa accttcaaag gaaaagggaa cccaaccaan

tttcaaannn nttccaaant tnngtt

<210> 20 <211> 484 <212> DNA <213> Homo Sapiens acctgaaagc aagcccatta tgacaagctc agaggctttt gaacctccaa aatatttaat gcttggtcaa caggcagtag gtggagttcc cattcagcct tccgtaagga ctcagatgtg 60 gcttacagag cagctgcgga caaatccttt ggaaggtaga aatacagagg attcttacag 120 tttageteet tggcaacage agcaaattga anactttega caaggaagtg aaacaccaat 180 gcaggttttg actggatcat ctcgtcaaag ttattcacct ggctatcagg atttcagtaa 240 gtgggaatcn atgttgaaaa tnaaagaagg acttctaagg cagaaagaaa ttgtantcga 300 teggeagaag caacnaatta eccaeetgen thanangata agggataatg aattacegge 360 tenneatgee atgttaggae attatgtnaa ttgtgaggat tettatgtgg etagtttgea 420 480 ccac 484 <210> 21 <211> 355 <212> DNA <213> Homo Sapiens <400> 21 cttccaagtt gctcttatca ggtactgctg atggtgcaga cctcaggaca gtagatccag aaacacaggc tagactggaa gctttactag aagctgcagg aataggaaaa ttgtccacgg 60 ctgatggtaa agcctttgca gatcctgaag tacttcggag gttgacatcg tctgttagtt 120 gtgcgttgga tgaanctgct gctgcactta cccgtatgag agctgaaagc acagcaaatg 180 cagggcagtc ggacaaccgc agtttggcng aagcctgttc anaaggagat gtaantgctg 240 tgcgaaagtt actcattgaa gggcgaagtg tatttgaact cccngaggaa gggga 300 a di salah kemendaran menganjan di jalah salah di jalah sa 355 1.10 May 11.10 11.10 44<211> 1070 mark year and a reference HORIZO BRODEN <212> DNA State of the second <213> Homo Sapiens 化基层基金 化氯磺胺二氯 Jackson Agentie <400> 22 --atgaaaaaga acaggataaa ccacctaatt tggttctgaa agataaagta aagcccaaac aggatacaaa atacgatctt atattagatg agcaggccga agactcaaaa tcaagtcact 60 cacacacaag tnaaaaacac aagaagaaaa cccatcactg ttctgaagag aaagaagatg 120 aggactacat gccaatcaaa aatactaatc aggatatcta tagagaaatg gggtttggtc 180 actatgaaga agaagaaagc tgttgggaga aacaaaagag tgaaaagaga gaccgaactc 240 agaaccgaag tcgtagccga tctcgagaga gggatggcca ttatagtaat agtcataaat 300 caaaatacca aacagatett tatgaaagag aaaggagtta aaagagagae egaageagaa 360 gtccnaagaa gtccnaagat aaagaaaaat ctaagtntng atgaaagatg aagaggcaga 420 attgagaggc taacatattt actcttgtct aacttaagag tgccaggaaa gcagatgctt 480 agattttgtg tccaagcttg ttatttttt canactagga ttatggtctt tagattaata 540 cngatnatat agagcacgga aagataaaga attgaacatt ttcttngtat acttttttac 600 actaatttca ttgctatacn taaanggtag tnttcatttt ctgaagtcta acattttcac 660 tcttttttta atgnagtatt tcatactaca aaaatacatn nacgtatata taaagggata 720 ataaangtan atatntgtgt antcatcagc cagcttaaga tacagatgtt gtcgacattt 780 tagaagttcc ctaaggccct ctccctctca aataattatt tggaattttg tgtttgtcat 840

▲ ♥ &/ ∪はフロ/ ュマロ / シ

900

960

1020 1070

<210> 23

ママ ひ ブン/ひつとりご

ttgtctatta tagttttaca acanacgtat gtatntgtaa gtgaaatgtt aantttgtat

gtttctgaat tttatataaa tggcaaaang tttacttntg tgactttctt tcatttttat

tgntanatag tattatataa atatactaca acttattcat ttcttgatgg

240

```
<211> 861
               <212> DNA
               <213> Homo Sapiens
               <400> 23
         gaaagaccca ggagaagccg cccaaagaac tggtcaatga gtggtcattg aagataagaa
                                                                           60
         aggaaatgag agttgttgac aggcaaataa gggatatcca aagagaagaa gaaaaagtga
                                                                         120
         aacgatctgt gaaagatgct gccaagaagg gccagaagga tgtctgcata gttctggcca
                                                                          180
         aggagatgat caggtcaagg aaggctgtga gcaagctgtn tgcatccaaa gcacacatga
                                                                          240
         actcagtgct catggggatg aagaaccagc tcgcggtctt gcgagtggct ggttccctgc
                                                                          300
         agaagagcac agaagtgatg aaggccatgc aaagtcttgt gaagattcca gagattcagg
                                                                          360
         ccaccatgag ggagttgtcc aaagaaatga tgaaggctgg gatcatagag gagatgttag
                                                                          420
         aggacacttt tgaaagcatg gacgatcagg aagaaatgga ggaagaagca gaaatggaaa
                                                                          480
         ttgacagaat tetetttgaa attacageag gggeettggg caaageacee agtaaagtga
                                                                          540
         ctgatgccct tccagagcca gaacctccag gagcgatggc tgcctcagag gatgaggagg
                                                                          600
         aggaggaaga ggntttggag gccatgcagt cccggctggc cacantccgc agctaggggc
                                                                          660
         tgccnacccc gctgggtgtg cacacactcc tntcaagagc tgccatttta tgtgtntctt
                                                                          720
         gcactacacc totgttgtga ggactaccat tttggagaag gttctgtttg tctctttca
                                                                          780
         ttctctgccc aggttttggg atcgcaaagg gattgttctt ataaaagtgg cataaataaa
                                                                          840
         tgcatcattt ttaggagtat a
                                                                          861
              <210> 24
            ---<211>-985------
              <212> DNA
              <213> Homo Sapiens
         <400> 24 ...
        agggeteceg ggaagaaaca etggeatttg teeetttget teggettetg gaggeagana
 tggcgggtca tgagctgtgc tcaggaagct ggaatctgac cctggtggcg tcgggcccag . 191180 .... 1 commo
tetecatgge ageegageat ttattaceeg ggeetecace cagettggea gaetttanac
                                                                      94240000 - 94009 4
        ttgaggctgg aggaaaggga actgaacgcg gttctgggag cagcaagccc acgggtagca - 300 000
        geggaggeee cagaatggee agtttnttte ceaagaceaa atttaatgag tacaaggatg (183360 -
    ttetteeetg tatgacaage ageagagggg aagataaaag ceacegaett catggtggee : 420 ::
        atgaggtgcc tgggggccag cccgacgcca ggggaggtgc agcggcacct gcagacccac
                                                                       480
        gggatagacg gaaatggaga gctggatttc tccacttttc tgaccattat gcacatgcaa
                                                                          540
        ataaaacaag aagacccaaa gaaagaaatt cttctagcca tgttgatggt ggacaaggag
                                                                          600
        aagaaaggtt acgtcatggc gtccgacctg cggtcaaaac tcacgagtnt gggggagaag
                                                                          660
         ctcacccaca aggaagtgga tgatcttttc agggaagcag atatcgaacc caatggcaaa
                                                                          720
        gtgaagtatg atgaatttat ccacaagatc accettnctg gacgggacta ttgaaggagg
                                                                          780
        agaatgggag agcctcccct gggcctgaaa acttggagca attaattttt tttaaaaagt
                                                                          840
        gttcttttca cttgggagag atggcaaaca cagtggcaag acaacattac ccaactatag
                                                                          900
         aagagaggct aactagcaac aataatagat gatttcagcc atggtatgag tagatcttta
                                                                          960
         ataaaagatt tgtattgatt ttatt
                                                                          985
              <210> 25
              <211> 545
              <212> DNA
              <213> Homo Sapiens
              <400> 25
        ctetetgetg catgeactat tgetgtaagt ettgetggaa tgagtaeetg acaactegga
                                                                           60
         120
        ceggageett cattegtgee ategteteet egecagaggt catetecaag tatganaagg
```

cgctcctgcg tggctatgtg gagagctgct ccaacctgac ctggtgcacc aacccccagg

77 U 22/U94UJ

1 しょ/ しいフロ/170/2

```
gctgcgaccg catcctgtgc cgccagggcc tgggctgtgg gaccacctgc tccaagtgtg
          gctgggcctc ttgcttcaac tgtagcttcc ctgaggcaca ctaccetgct agctgtggcc
                                                                               300
          atatgtetea gtgggtegat gaeggtgget actatgaegg catgagegtg gaggegeana
                                                                               360
          ncaagcacct ggccaagctc atctccaagc gctgtcccag ctgtcaggct cccatcgaga
                                                                               420
          anaacgaagg gtgcctgcac atgacctgtg ccaaatgtaa ccatggattc tgctggcgct
                                                                               480
                                                                               540
                                                                               545
                <210> 26
                <211> 374
                <212> DNA
                <213> Homo Sapiens
                <400> 26
          gggaaaaggg cctccacatt gatcagctgg tttgtctggt gctggaggcc tgncagaagg
         gtecaaatee teetggaace etgggeeaca etgttgetgg gggtgtggee tgtaccaeta
                                                                               _6.0
          canatgteet etettgente etgeacetet taageeaggg etaentgaaa engegtgatn
                                                                               120
         accggcccca aatcctgatg tatgccgctc catancccat ggggccctgc cggggtcntg
                                                                               180
         cacatntono tttotgtggc agccanagco aaacotocca neconoccoa aaacotgtgg
                                                                               240
         ctaccetgnn atctctacan ctgccttgcn ngccgcttcn tnanccncca ctaaaatnta
                                                                              300
                                                                              360
          acggttgatt aacc
                                                                              374
               <210> 27
            -- -<211> 552------
               <212> DNA
               <213> Homo Sapiens
               <400> 27
         cacaaacctt gcaatccaag ggaaaaggag cgaatccaaa atgcaggagg cagcgtgatg
     atacaacgtg ttaatggttc attagcagta tctcgtgctc tgggggacta tgattacaag : 120
        tgtgttgatg gcaagggccc aacagaacaa cttgtttctc cagagcctga ggtttatgaa 180
 attttaagag cagaagagga tgaatttatc atcttggctt gtgatgggat ctgggatgtt
atgagtaatg aggagetetg tgaatatgtt aaatetagge ttgaggtate tgatgacetg
         gaaaatgtgt gcaattgggt agtggacact tgtttacaca agggaagtcg agataacatg 360
         agtattgtac tagtttgctt ttcaaatgct cccaaggtct cagatgaagc ggtgaaaaaa
         gattcagagt tggataagca cttggaatca cgggttgaag anattatgga gaatctggcg
                                                                              420
         aagaangaat geetgatett geecatgtea tgegeatett gtetgeagaa aatateecaa
                                                                              540
         atttgcctcc tg
                                                                              552
               <210> 28
               <211> 502
               <212> DNA
               <213> Homo Sapiens
         ctgacctgcc cacactggaa gaccatcaga agcagagcca gcagcttaag gattctgagt
         tgaagagcac agagctgcag gagaaagtga ctgagctgga gagtttgctg gaggagaccc
                                                                               60
         aggcaatctg cagagagaag gagattcaac tggaaagcct gaggcagaga gaagcagaat
                                                                              120
         teteeteege tggacatage etgcaagata aacagtetgt ggaggagace agtggagaag
                                                                              180
         gtccagaagt ggaaatggag tcctggcaga agcgatacga ttcgctccaa aagattgtgg
                                                                              240
         agaagcagca gcagaagatg gatcagttgc gctcacaagt ncagagccta gagcaggaag
                                                                              300
         tggctcnaga agaaggaaca agccaggccc tgagagagga ggcccagcga agggattcag
                                                                              360
         ecetgeagea getgegeaca geegtgaagg anettteagt genaaaceag gaettgattg
                                                                              420
                                                                              480
         agaagaatct gacactccag ga
                                                                              502
```

<210> 29

<211> 537 <212> DNA <213> Homo Sapiens

<400> 29

gctttgggga	ctcagtggac	tgctctgact	gctggcttcc	ggtggtgaaa	ttcatcgagg	60
agcaatttga	gcagtacctt	agggatgaga	gtggcctgaa	ccggaagaac	atccaggact	120
cccgagtcca	ctgctgcctc	tacttcatct	cacccttcgg	ccgggggctc	cggcccctan	180
atgtggcctt	cctccgggca	gtacacgana	aagtcaacat	catcccagtc	attggcaaaq	240
cggatgctct	gatgccccag	gaaacccagg	ccctcaagca	gaagatccgg	gatcaqttqa	300
aggaagagga	gatccacatc	taccagttcc	ccgaatgtga	ctctgatgaa	gatgaagact	360
tcaagaggca	ggatgcagan	atgaaggaaa	gcatcccttt	tgcagtcgtg	ggatcatgcc	420
aagtggtgag	ggatggcggg	aaccggccgg	tgaggggacg	ccgctactcc	tgggggaacg	480
tggaagtgga	naaccacatc	nctgcgattt	cctgaacctg	cgacggatgc	tggtgca	537

<210> 30 <211> 3872 <212> DNA <213> Homo Sapiens

<400> 30

ccattgcaca	cagacaggca	gcatggctag	caaacgaaaa	tctacaactc	catgcatggt	. 60
 teggacatea	caagtagtag	aacaagatgt	gcccgaggca	agtagacagg	gccaaaqaqa	120
aaggaatcgg	cacaccacag	cctgacgtgg	ccaaggacag	ttgggcanca	gaacttgaaa	180
actcttccaa	agaaaacgaa	gtgatagagg	tgaaatctat	gggggaaagc	caqtccaaaa	240
aactccaagg	tggttatgag	tgcaaatact	gcccctactc	cacgcaaaac	ctgaacgagt	300
tcacggagca	tgtcgacatg	cagcatccca	acgtgattct	caaccccctc	tacqtqtqtq	360
cagaatgtaa	cttcacaacc	aaaaagtacg	actccctatc	cgaccacaac	tccaaqttcc	420
atcccgggga	ggccaacttc	aagctgaagt	taattaaacg	caataatcaa	actgtcttgg	480. 34. 東京市部学長
aacagtccat	cgaaaccacc	aaccatgtcg	tgtccatcac	caccagtggc	cctggaactg	540 Cars Transpar
gtgacagtga	ttctgggatc	teggtgagta	aaacccccat	catgaagcct	qqaaaaccaa	600.5% * 66.5%
aagcggatgc	caagaaggtg	cccaagaagc	ccgaggagat	cacccccgag	aaccacqtqq	660% Registre
aagggaccgc	ccgcctggtg	acagacacag	ctgagatcct	ctcgagactc	gacagaataa	720000 9486460
agctcctcca	agacacatta	ggacacgtca	tgccttctgt	acagetgeca	ccaaatatca	780
accttgtgcc	caaggtccct	gtcccactaa	atactaccaa	atacaactct	gccctggata	840 11781
caaatgccac	gatgatcaac	tctttcaaca	agtttcctta	cccgacccaq	gctgagttgt	900
cctggctgac	agetgeetee	aaacacccag	aggagcacat	cagaatctqq	tttgccaccc	960
agcgcttaaa	gcatggcatc	agctggtccc	cagaagaggt	ggaggaggcc	cqqaaqaaqa	1020
tgttcaacgg	caccatccag	tcagtacccc	cgaccatcac	tgtgctgccc	gcccagttgg	1080
ccccacaaa	gatgacgcag	cccatcctcc	agacggctct	accgtgccag	atcctcggcc	1140
agactagcct	ggtgctgact	caggtgacca	gcgggtcaac	aaccgtctct	tqctccccca	1200
tcacacttgc	cgtggcagga	gtcaccaacc	atggccagaa	gagacccttq	gtgactcccc	1260
aagetgeece	cgaacccaag	cgtccacaca	tcgctcaggt	gccagagccc	ccacccaagg	1320
tggccaaccc	cccgctcaca	ccagccagtg	accgcaagaa	gacaaaggag	cagatagcac	1380
atctcaaggc	cagctttctc	cagagccagt	tecetgaega	tgccgaqqtt	taccggctca	1440
tcgaggtgac	tggccttgcc	aggagcgaga	tcaagaagtg	gttcagtgac	caccgatate	1500
ggtgtcaaag	gggcatcgtc	cacatcacca	gcgaatccct	tgccaaaqac	cagttggcca	1560
tegeggeete	ccgacacggt	cgcacgtatc	atgcgtaccc	agactttqcc	cccagaagt.	1620
tcaaagagaa	aacacagggt	caggttaaaa	tcttggaaga	cagctttttq	aaaagttett	1680
ttcctaccca	agcagaactg	gatcggctaa	gggtggagac	caagetgage	aggagaga	1740
tcgactcctg	gttctcggag	aggcggaagc	ttcgagacag	catqqaacaa	gctgtcttgg	1800
attecatggg	gtctgggcaa	aaaaggccaa	gatgtgggaa	gcccccaatq	gtgctctgtc	1860
tcgactcgaa	cagctctccg	gtgcccagtt	aacaagttct	ctgcccagcc	cttcqccagc	1920
aatttgcaaa	aagtcaagaa	cangttcatc	tcctgaagga	gcacgtttqc	aanaaaccca	1980
nttgggctac	tccccangag	taacgaccag	tttaaccggg	ccaagancng	gnctgggtcc	2040

```
cgaactgaaa attgtgcntt tgggttcang gngaacaaga nngcttnccn gaaaacgggg
         aaccgttaaa attggnttgg agcaaatnnc aagnaaccaa gcccaatggg caaaattgnt
                                                                          2100
         caacgggtta ccnaatgccg nttcnaaggg aaanncaaca aanacccaan ggccgganan
                                                                          2160
                                                                          2220
         gcccaaagaa acgggggntt aatgttggtt cccacaatta ttacaaggga cccccaaaaa
         agetettgeg aaggaggaet ttgganaaan tttgttgaee agggtaaaan tagggeaggg
                                                                          2280
         acccagcaaa aagactgttt tcccagcaaa gcccttcaga ggccaccttc agaccgttca
                                                                          2340
         gagggcagca gccgggacgg ccagggtagc gacgagaacg aggagtcgag cgttgtggat
                                                                          2400
                                                                          2460
         tacgtggagg tgacggtcgg ggaggaggat gccatcttca gatagatcag atagctggag
         tcaggntgcg gcagaaggtg tgtcggaact ggctgaatca gactccgact gcgtcctgc
                                                                          2520
         agaggetgge caggeetaga cagggaagte tgttagaaet getgtgetga teaacgggae
                                                                          2580
        geteegtett tgaagaaaga agagatggte teteeceage catgggeeae cettgeeagt
                                                                          2640
        gactecaagt ggaactaett agetegegtg tgeetggagg gtgegggaag tecagegact
                                                                          2700
        ctcagacgca cctcccagag gaccggtggg aattgttcat agtgccaaag tcctactact
                                                                          2760
                                                                          2820
        gegttttcaa tgggteettg tacatagttt geteetetge eetageeete acetettget
        atactggaac_cgatttgtac_aatgtgggaa_ttttgttacc_tttttaatca_agggcaactt
                                                                          2880
        ccttttccag cactaccatt gtaaggtttt tttcaggagg gagggctaac caccttgctt
                                                                          2940
        ttctcttttc tcttttctt tttttattt ttgttttatt aatttgggga aaggggtgtt
                                                                          3000
        agcattagtg ccatgatatc tactggattt taagtaggga gactttattt ttaaaggtag
                                                                          3060
        gttgaaattt gggagatttc tcggcaggaa gggctgaaat ccaggcccct gtctcaactt
                                                                          3120
        ggagagaggt gacagacggc agatetteca aatcaaatte etttecagtt etteceetgg
                                                                          3180
        ctgccttttt gggggtccct gccttagccc cacacaaggc tttctgaact gccaagaggg
                                                                          3240
        gatetggett etcaactget eggeetettg ggeeaggetg tgeecageea geeetgggag
                                                                          3300
     ___aactgggtag_caggtggetg_acttctttaa_gcacctttct_aaataccagc_agaagaggct
                                                                          3360
        cccgcctctg ttagcatgat cagtactatt gtgacattaa aacaacaaca ataagatctt
                                                                          3420
        cctatctgga gggtacagag gtgaatggct ttggttttca tttctctttc ttcactgctt
                                                                          3480
        ttctcggtgt ggtatttgac aagattttag ntnaaagcct caccatgaat tgatttttt
                                                                          3540
        tgtttgngng ngtgtttgtt ttgggacaat tttagatacc tgngtgcant ttttcagtta
                                                                          3600
  gtcctaantt ttaaaagaag ggnaaccaag nganatattt ggtgtaagtg ttgcagtatg 3720
 aanttetggtetgcaatcoot coocgtocca cantgoocco catttgagta caccgcacaa 46.37.80000 kijosechti
 antcaataaa gcnaaganta aacattttta tt
                                                               12473 Str. 31-63872 %44 (436 %<sub>310</sub> %
       (1877年<del>- 188</del>8年) 电电子设置器 (1975年) 1985年 (1875年)
and a comment of the company of
                                                                MARK OF A SAMERAND GROUPS
        <212> DNA
                                                                       スレー・セスカン・発展して
             <213> Homo Sapiens
              <400> 31
        gaaatcatgg gagcacaaag aagaaataag tgaagcagag ccagggggtg gttccttggg
        agatggaagg ccgccagagg aaagtgccca tgaaatgatg gaggaggaag aggaaatccc
                                                                           60
        aaaacctaag tetgtggttg cacegecagg tgeteetaag aaagagcatg taaatgtagt
                                                                           120
        atteattggg cacgtanatg etggcaagte aaccattgga ggacaaataa tgtatttgae
                                                                           180
        tggaatggtt gacaaaagga cgcttgaaaa gtatgaaaga gaagctaaag agaaaaacag
                                                                           240
        agaaacttgg tacttgtctt gggccttaga cacaaatcag gaagaacgag acaagggtaa
                                                                           300
        aacagtagaa gtgggtcgtg cctattttga aaccgaaaag aacatttcac aattctagat
                                                                          :360
        atgaatccca gaacactgag ctcaaaaccc aaagcccaga atttgaagct caaagttccn
                                                                           420
        aattccanga aggtgcggag atgcttctga accccgagga aaagatcctt tgaatatctc
                                                                           480
        cgtaggagtt cacccctgg actccttcac tcaggggttt ggggagcacc cacaggggac
                                                                           540
        ctgcccatag ggccaccttt tgagatgccc acaggggccc tgctgtctac accgc
                                                                           600
                                                                           655
             <210> 32
             <211> 466
```

<212> DNA

<213> Homo Sapiens

```
<400> 32
gaaaggtggc cagaggaagg gacagctgac ctggcacaat ctgggcttga agggggcaca
                                                                       60
acaagagcgt ctgtgagctg gtgctgtctg gagggatctt ggctcctctc cggctatctg
                                                                      120
accttectga agacctgete geacactgea tecettgeag teagttecag etegtgeega
                                                                      180
atteggeaeg agetegtgee gaatteggea egagggaage aetaeteeea gegetgggee
                                                                      240
caggaggacc tgctggagga gcagaaggat ggggcccggg cagcggctgt ggctgacaag
                                                                      300
aagaaaggcc tcatggggcc actgaccgaa ctggacacta aagatgtgga tgccctgctg
                                                                      360
aagaagtetg aggeecagea tgaacageeg gaagatggat geeectttgg tgeectgaeg
                                                                      420
cagcgcctcc tgcaggccct ggtggaggaa aatattattt tttccc
                                                                      466
      <210> 33
      <211> 293
      <212> DNA
      <213> Homo Sapiens
      <400> 33
gtcggcgccc tacatgagaa gcatgatgca gtcgctgagc cagaatccag atttggctgc
                                                                       60
acagatgatg ctgaatagcc cgctgtttac tgcaaatcct cagctgcagg agcagatgcg
                                                                      120
gecacagete ecageettee tgeageagat geagaateea gacacaetat cageeatgte
                                                                      180
aaacccaaga gcaatgcagg ctttaatgca gatccagcag gggctacaga cattagccac
                                                                      240
tgaagcacct ggcctgattc cgagcttcac tccaggtgtg ggggtggggn tct
                                                                      293
 ----<210>-34----
      <211> 456
      <212> DNA
      <213> Homo Sapiens
      <400> 34
caaagcetta agtcagagee tgctagaatg tgtccaggtt tacagctata ctgcacagca
                                                                       60
cttcccatgc>tagtctctgt aaaacgcaaa aagccatttt caggagcagt aggcaagtca
                                                                      120 (1) 4 may 3 4 5
cattcaattg.aaatgcagga tggtgcactg ccattccaag ttccatcttc ctggcagatc
                                                                      180 (3.453)
agcacagggt tccccagaag ttcatatcct ggattacagg tgtatgaaac catggtacca
                                                                      240
tacagaaagt ttgatgaatg:tgtagcagga gactcctttg:tattttccca ggttttagcc
                                                                      actgctccca aatgataagg agggtgagga gtcacatatg gaacttccat catgtcgtct
                                                                      360
tettgeteaa aatateeetg gteatetttg agtttagtae agteteeaaa atetatatga
                                                                      420
ggagggaggc cacagtctat tggcatacca aatttt
                                                                      456
      <210> 35
      <211> 679
      <212> DNA
      <213> Homo Sapiens
      <400> 35
ggcggcgttc gtgtccgagg tcactagttt cccggtagtt cagctgcaca tgaatagaac
                                                                       60
agcaatgaga gccagtcaga aggactttga aaattcaata aatcaagtga aactcttgaa
                                                                      120
aaaggateea ggaaaegaag tgaagetaaa aetetaegeg etatataage aggeeaetga
                                                                      180
aggacettgt aacatgeeca aaccaggtgt atttgacttg atcaacaagg ccaaatggga
                                                                      240
cgcatggaat gcccttggca gcctgcccaa ggaagctgcc aggcagaact atgtggattt
                                                                      300
ggtgtccagt ttgagtcctt cattggaatc ctctagtcag gtggagcctg gaacagacag
                                                                       360
gaaatcaact gggtttgaaa ctctggtggt gacctccgaa gatggcatca caaagatcat
                                                                       420
gttcaaccgg cccaaaaaga aaaatgccat aaacactgag atgtatcatg aaattatgcg
                                                                       480
tgcacttaaa gctgccagca aggatgactc aatcatcact gttttaacag gaaatggtga
                                                                       540
ctattacagt agtgggaatg atctgactaa cttcactgat attccccctg gtggagtana
                                                                       600
ggagaaagct aaaaataatg ccgttttact gaagggaatt tgtgggctgt tttatagaat
                                                                       660
```

679

ttcctaagcc tctgattgc

<400> 39

```
<210> 36
                <211> 689
                <212> DNA
                <213> Homo Sapiens
                <400> 36
    ctaaaccagt ggacatatca ggccatggtc cacgaactac taggcataaa caacaatcgg
                                                                                                                                                   60
    attgatettt ecagagtgee gggaateagt aaagaettaa gagaagtggt eetatetget
                                                                                                                                                 120
    gaaaatgatg aattetatge taataatatg tacetgaact ttgetgagat tggtagcaat
                                                                                                                                                 180
    ataaagaatc tcatggaaga ttttcagaag aagaaaccaa aagaacagca aaaactagaa
                                                                                                                                                 240
    tcaatagcag acatgaaggc gtttgttgag aattatccac agttcaagaa aatgtctggg
                                                                                                                                                 300
    actgtttcaa agcatgtgac agtggttgga gaactgtctc gattggtcag tgaacggaat
                                                                                                                                                 360
    ctgctggagg tttcagaggt tgagcaagaa ctggcctgtc aaaatgacca ttctagtgct
                                                                                                                                                 420
    ctccagaata taaaaaggct tctgcagaac cccaaagtga cagagtttga tgctgccqc
                                                                                                                                                 480
    etggtgatge tttatgettt acattatgag cgacacagca gcaatagcet gccaggacta
                                                                                                                                                 540
    atgatggncc tcaggaataa aggtgtttct gagaagtatc gaaagctcgt gtctgcagtt
                                                                                                                                                 600
    gttgaatatg gtggtaaaac gagtcagagg aagtgacctc ctcagcccca aagatgctgt
                                                                                                                                                 660
    tggctatcac caaacaattc ctcaaaggg
                                                                                                                                                 689
                <210> 37
                <211> 443
                <212> DNA
                <213> Homo -Sapiens-----
    ccacgcccgg ccccggagca ggcttttacg catgccccgc gcgccccctt gtgtccggaa
    tttatteett eeggtgggtt egeggtetag etgaceaaga aeggaaetgg ggaetttege
                                                                                                                                                 120
    agtgagagtt acagetetta aagatggeac egaceeagge egggegeggt ggeteaggee 180 ...
    tgcaatccca gcactttggg aggcggaggc aggtgaatca cgaggtcagg aaatcgagac - - 240 mm (wedges)
Catectgget aacatggtga aaccccgtct ccactaaaaa tacaaaaaat tagccaggca a 1930ggda aaan 19
tggtggetggmeacetgtagtweecagetact tgggaggetg agecaggaaa gtggeatgaa entre 360 bay take this
    cccgcgaggc agagcttgca ataagccgag atcgtgccaa tgcactccag cctgggcaac 1 0420 grant of a more
    agaaggagac actgtctcaa aaa
                                                                                                                                    To the same of the
            and the control of the great productions
                                                                                                                                                     en de la companya de
La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
               <211> 442
                <212> DNA
                <213> Homo Sapiens
                <400> 38
    ctegeetegg ageageeatg atggaaggee tggaegaegg eeeggaette eteteagaag
                                                                                                                                                   60
    aggaccgcgg acttaaagca ataaatgtag atcttcaaag tgatgctgct ctgcaggtgg
                                                                                                                                                 120
    acatttctga tgctcttagt gagcgggata aagtaaaatt cactgttcac acaaagattc
                                                                                                                                                 180
    caccagcacc accaagacct gattttgatg cttcaaggga aaaactacag aagcttggtg
                                                                                                                                                  240
    aaggagaagg gtcaatgacg aaggaagaat tcacaaagat gaaacaggaa ctggaagctg
                                                                                                                                                  300
    aatatttggc aatattcaag aagacagttg cgatgcatga agtgttcctg tgtcgtgtgg
                                                                                                                                                  360
    cagcacatcc tattttgaga agagatttaa atttccatgt cttcttggaa tataatcaag
                                                                                                                                                  420
    atttgagtgt gcgaggaaaa aa
                                                                                                                                                  442
                <210> 39
                <211> 692
                <212> DNA
                <213> Homo Sapiens
```

```
cagggacagg ccctatctta tatttttttc catcttcatc atccacttct gcttacagtt
                                                                                                                                                                                                                                                            60
 tgctgcttac aataacttaa tgatggattg agttatctgg gtggtctcta gccatctggg
                                                                                                                                                                                                                                                         120
 cagtgtggtt ctgtctaacc aaagggcatt ggcctcaaac cctgcatttg gtttaggggc
                                                                                                                                                                                                                                                        180
 taacagaget cetcagataa tettcacaca catgtaactg etggagatet tattetatta
                                                                                                                                                                                                                                                        240
tgaataagaa acgagaagtt tttccaaagt gttagtcagg atctgaaggc tgtcattcag
                                                                                                                                                                                                                                                        300
ataacccage ttttectttt ggettttage ccatteagae tttgccagag tcaagccaag
                                                                                                                                                                                                                                                        360
 gattgetttt ttgetaeagt tttetgeeaa atggeetagt teetgagtae etggaaacea
                                                                                                                                                                                                                                                        420
gagagaaaga ggatccagga tgtacttgga tgaggaggcc tggcttatct aggaagtcgt
                                                                                                                                                                                                                                                        480
gtctggggtg cttattgctg ctccatacag ctgtacgtca gccccttggc cttctctgta
                                                                                                                                                                                                                                                        540
ggttettgge ancaatgage agettteact caagtgacae aagtaattae tgagteetaa
                                                                                                                                                                                                                                                        600
tttgatagcc accaactgta cctgggtang caaagtcaga tttttgagaa nctttttcct
                                                                                                                                                                                                                                                        660
gatttgaagt tttaattacc ttaatttcct tt
                                                                                                                                                                                                                                                        692
                     <210> 40
                     <211> 619
                      <212> DNA
                     <213> Homo Sapiens
                     <400> 40
gaggcaccag attctgctga ggggaccacc cttacagtgc tgcctgaagg tgaggagttg
                                                                                                                                                                                                                                                           60
cccctgtgtg tgagtgagag caatggcctg gagctcccac cctcagcagc atctgatgag
                                                                                                                                                                                                                                                        120
ccacttcagg agccactgga ggctgacagg acctcggaag agctgacaga ggccaagacc
                                                                                                                                                                                                                                                        180
ccaacetcca gcccagagaa gccacaggaa ctcgttacag ctgaggttgc agctccatcc
                                                                                                                                                                                                                                                        240
accteatett cagecaette etegeetgag ggteetteae etgeeegaee teeteggegt
                                                                                                                                                                                                                                                        300
cgcaccagtg ctgatgtgga aattaggggt caagggactg gtcggccagg acaaccacca
                                                                                                                                                                                                                                                        360
ggccccaaag tgcttcgaaa gctgccagga cggctggtaa ctgtggtaga ggaaaaggaa
                                                                                                                                                                                                                                                        420
ctggtgcggc ggcggcggca gcagcgggga gctgccaanc accctagtgc ctggggtctc
                                                                                                                                                                                                                                                        480
tgagactagt gccagccggg gaagccgtc tgtccgcagc atgtcanggc canaatcctc
                                                                                                                                                                                                                                                        540
eceteceatt ggtgggeeet gtgaaagetg eteetteate eneactgene acteeanece
                                                                                                                                                                                                                                                        600
agnagecett cattgeneg
                                                                                                                                                                                                                                                        619
                                                                  NATIONAL SAME THE MATTER SAME AS A SUPPLEMENT OF THE SAME AS A SAME A SAME AS A SAME                      <210> 41
                                                                                           The Control of the Co
                     <211> 153

 State of the state of
                     <212> PRT
                     <213> Homo Sapiens
                     <400> 41
Pro Glu Ser Lys Pro Ile Met Thr Ser Ser Glu Ala Phe Glu Pro Pro
                                                                                                                               10
Lys Tyr Leu Met Leu Gly Gln Gln Ala Val Gly Gly Val Pro Ile Gln
Pro Ser Val Arg Thr Gln Met Trp Leu Thr Glu Gln Leu Arg Thr Asn
                                                                                                   40
Pro Leu Glu Gly Arg Asn Thr Glu Asp Ser Tyr Ser Leu Ala Pro Trp
                                                                                                                                                            60
Gln Gln Gln Gle Glu Phe Arg Gln Gly Ser Glu Thr Pro Met Gln
                                                                      70
Val Leu Thr Gly Ser Ser Arg Gln Ser Tyr Ser Pro Gly Tyr Gln Asp
                                                                                                                               90
Phe Ser Lys Trp Glu Ser Met Leu Lys Lys Glu Gly Leu Leu Arg Gln
                                                                                                                 105
Lys Glu Ile Val Asp Arg Gln Lys Gln Ile Thr His Leu Ile Arg Asp
                                                                                                   120
Asn Glu Leu Pro Ala His Ala Met Leu Gly His Tyr Val Asn Cys Glu
              130
                                                                                     135
```

₹¥ ∪ 27/U44U3

```
Asp Ser Tyr Val Ala Ser Leu His His
                                                                           150
                                          <210> 42
                                           <211> 95
                                           <212> PRT -
                                           <213> Homo Sapiens
                                           <400> 42
                             Ile Leu Leu Glu Phe Tyr Leu Trp Gln Ile Gly Arg Tyr Ile Phe Val
                                                                                                               10
                            His Val Asn Asn His Ile Tyr Ile Lys Leu Tyr Asn Cys Thr Phe Leu
                                                                                                     25
                            Thr Ala Leu Ser Gln Val Ala Leu Ser Phe Pro Ser Ile Asn Gly Leu
                                                                          40
                            Ile Phe Val Ser Phe Ala Phe Phe Arg Val Val Asn Ser Tyr Cys Pro
                                                                                   55
                            Leu Gln Phe Val Gln Phe Leu Arg Cys Leu Leu Leu Lys Arg Met
                            Leu Gly Glu Phe Ile Phe His Lys Glu Met Glu His Tyr Leu Lys
                                                                                                               90
                                <210> 43
                                          <211> 114
                                          <212> PRT
                                          <213> Homo Sapiens
                      <400> 43
Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro
the one execution to be a protegory (5) and
                                                                                                                         rout that is well a stay of a
                                                                                                           10
Val Asp Pro Glu Thr Gln Ala Arg Leu Glu Ala Leu Leu Glu Ala Ala
              Gly Ile Gly Lys Leu Ser Thr Ala Asp Gly Lys Ala Phe Ala Asp Pro
                                                                                                                                          45
                           Glu Val Leu Arg Arg Leu Thr Ser Ser Val Ser Cys Ala Leu Asp Glu
                                                                                   55
                           Ala Ala Ala Leu Thr Arg Met Arg Ala Glu Ser Thr Ala Asn Ala Gly
                                                                                                                       75
                           Gln Ser Asp Asn Arg Ser Leu Ala Glu Ala Cys Ser Gly Asp Val Ala
                           Val Arg Lys Leu Leu Ile Glu Gly Arg Ser Val Phe Glu Leu Pro Glu
                                                                                                     105
                           Glu Gly
                                         <210> 44
                                         <211> 132
                                         <212> PRT
                                         <213> Homo Sapiens
                                         <400> 44
                           Gly Glu Lys Glu Gln Asp Lys Pro Pro Asn Leu Val Leu Lys Asp Lys
```

-17-

10

Val Lys Pro Lys Gln Asp Thr Lys Tyr Asp Leu Ile Leu Asp Glu Gln

```
Ala Glu Asp Ser Lys Ser Ser His Ser His Thr Ser Lys His Lys Lys
                          40
Lys Thr His His Cys Ser Glu Glu Lys Glu Asp Glu Asp Tyr Met Pro
 Ile Lys Asn Thr Asn Gln Asp Ile Tyr Arg Glu Met Gly Phe Gly His
                   70
                                     75
 Tyr Glu Glu Glu Glu Ser Cys Trp Glu Lys Gln Lys Ser Glu Lys Arg
                                  90
Asp Arg Thr Gln Asn Arg Ser Arg Ser Arg Ser Arg Glu Arg Asp Gly
                              105
His Tyr Ser Asn Ser His Lys Ser Lys Tyr Gln Thr Asp Leu Tyr Glu
        115
                          120
 Arg Glu Arg Ser
    130
      <210> 45 ·
      <211> 214
      <212> PRT
      <213> Homo Sapiens
      <400> 45
 Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu
 Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile
            20
                              25
 Gln Arg Glu Glu Lys Val Lys Arg Ser Val Lys Asp Ala Ala Lys
                          40
Lys Gly Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg
                          55
 Ser Arg Lys Ala Val Ser Lys Leu Ala Ser Lys Ala His Met Asn Ser
                   70
                       Val Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala Gly
               85
                              ... 90:
 Ser Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu Val
            100
                              105
                                    . .
                                                110
Lys Ile Pro Glu Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu Met
                          120
 Met Lys Ala Gly Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu Ser
                      135
                                         140
 Met Asp Asp Gln Glu Glu Met Glu Glu Glu Ala Glu Met Glu Ile Asp
                   150
                                     155
 Arg Ile Leu Phe Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro Ser
 Lys Val Thr Asp Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met Ala
            180
                              185
 Ala Ser Glu Asp Glu Glu Glu Glu Glu Leu Glu Ala Met Gln Ser
                          200
                                             205
 Arg Leu Ala Thr Arg Ser
     210
      <210> 46
      <211> 248
      <212> PRT
```

~ #1 ~ W ~ W ~ # ~ W ~ . .

ママ ひ ツノバリマルリン

<213> Homo Sapiens

```
<400> 46
Gly Ser Arg Glu Glu Thr Leu Ala Phe Val Pro Leu Leu Arg Leu Leu
                                  10
Glu Ala Thr Leu Ser Pro Gly Arg Ala Phe Cys Ser Pro Ile Ser Ser
           20
Lys Ile Gln Pro Ala Gln Val Ala Gly His Glu Leu Cys Ser Gly Ser
                          40
Trp Asn Leu Thr Leu Val Ala Ser Gly Pro Val Ser Met Ala Ala Glu
His Leu Leu Pro Gly Pro Pro Pro Ser Leu Ala Asp Phe Leu Glu Ala
                  70
Gly Gly Lys Gly Thr Glu Arg Gly Ser Gly Ser Ser Lys Pro Thr Gly
                                 90
Ser Ser Gly Gly Pro Arg Met Ala Ser Phe Pro Lys Thr Lys Phe Asn
                              105
Glu Tyr Lys Asp Val Leu Pro Cys Met Thr Ser Ser Arg Gly Gly Lys
       115
                          120
Ile Lys Ala Thr Asp Phe Met Val Ala Met Arg Cys Leu Gly Ala Ser
                      135
Pro Thr Pro Gly Glu Val Gln Arg His Leu Gln Thr His Gly Ile Asp
                  150
                                     155
Gly Asn Gly Glu Leu Asp Phe Ser Thr Phe Leu Thr Ile Met His Met
       165 - 170
Gln Ile Lys Gln Glu Asp Pro Lys Lys Glu Ile Leu Leu Ala Met Leu
                             185
Met Val Asp Lys Glu Lys Lys Gly Tyr Val Met Ala Ser Asp Leu Arg
       195
Ser Lys Leu Thr Ser Gly Glu Lys Leu Thr His Lys Glu Val Asp Asp
   210 27 17 24 17 215 27 17 220
Leu Phe Arg Glu Ala Asp Ile Glu Pro Asn Gly Lys Val Lys Tyr Asp
225
Glu Phe Ile His Lys Ile Thr Leu
      245
```

<210> 47 <211> 177 <212> PRT <213> Homo Sapiens

<400> 47

 WO 25/U4403 X C 1/U320/174//2

<210> 48 <211> 102 <212> PRT <213> Homo Sapiens

<400> 48

Glu Lys Gly Leu His Ile Asp Gln Leu Val Cys Leu Val Leu Glu Ala 10 Gln Lys Gly Pro Asn Pro Pro Gly Thr Leu Gly His Thr Val Ala Gly 25 Gly Val Ala Cys Thr Thr Thr Val Leu Ser Cys Leu His Leu Leu Ser 40 Gln-Gly-Tyr-Lys-Arg-Asp-Arg-Pro Gln-Ile-Leu-Met-Tyr-Ala-Ala-Pro 55 Pro Met Gly Pro Cys Arg Gly Ala His Phe Cys Gly Ser Ser Gln Thr 75 Ser Pro Pro Lys Pro Val Ala Thr Leu Ser Leu Leu Pro Cys Pro Leu 90 85 Pro Pro Leu Lys Asn Gly 100

<210> 49 <211> 179 <212> PRT <213> Homo Sapiens

<400> 49

His Lys Pro Cys Asn Pro Arg Glu Lys Glu Arg Ile Gln Asn Ala Gly 10 Gly Ser Val Met Ile Gln Arg Val Asn Gly Ser Leu Ala Val Ser Arg 25 Ala Leu Gly Asp Tyr Asp Tyr Lys Cys Val Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro Glu Val Tyr Glu Ile Leu Arg Ala 55 Glu Glu Asp Glu Phe Ile Ile Leu Ala Cys Asp Gly Ile Trp Asp Val 70 Met Ser Asn Glu Glu Leu Cys Glu Tyr Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn Val Cys Asn Trp Val Val Asp Thr Cys Leu 105 His Lys Gly Ser Arg Asp Asn Met Ser Ile Val Leu Val Cys Phe Ser 120 Asn Ala Pro Lys Val Ser Asp Glu Ala Val Lys Lys Asp Ser Glu Leu 135

<210> 50 <211> 163 <212> PRT <213> Homo Sapiens

<400> 50

Asp Leu Pro Thr Leu Glu Asp His Gln Lys Gln Ser Gln Gln Leu Lys 10 Asp Ser Glu Leu Lys Ser Thr Glu Leu Gln Glu Lys Val Thr Glu Leu 20 Glu Ser Leu Leu Glu Glu Thr Gln Ala Ile Cys Arg Glu Lys Glu Ile 40 Gln Leu Glu Ser Leu Arg Gln Arg Glu Ala Glu Phe Ser Ser Ala Gly His Ser Leu Gln Asp Lys Gln Ser Val Glu Glu Thr Ser Gly Glu Gly 65 - - - - - - 70 Pro Glu Val Glu Met Glu Ser Trp Gln Lys Arg Tyr Asp Ser Leu Gln 85 Lys Ile Val Glu Lys Gln Gln Gln Lys Met Asp Gln Leu Arg Ser Gln 105 Val Gln Ser Leu Glu Gln Glu Val Ala Glu Glu Gly Thr Ser Gln Ala 120 Leu Arg Glu Glu Ala Gln Arg Arg Asp Ser Ala Leu Gln Gln Leu Arg 135 140 Thr Ala Val Lys Leu Ser Val Asn Gln Asp Leu Ile Glu Lys Asn Leu 150 155 Thr Leu Gln

<210> 51 <211> 164 <212> PRT <213> Homo Sapiens

<400> 51

₹₹₩ 77/U74U3 . 1 ₩ 21/U37U17U17

<210> 52 <211> 600 <212> PRT <213> Homo Sapiens

<400> 52 Met Cys Pro Arg Gln Val Asp Arg Ala Lys Glu Lys Gly Ile Gly Thr Pro Gln Pro Asp Val Ala Lys Asp Ser Trp Ala Glu Leu Glu Asn Ser 25 Ser Lys Glu Asn Glu Val Ile Glu Val Lys Ser Met Gly Glu Ser Gln Ser Lys Lys Leu Gln Gly Gly Tyr Glu Cys Lys Tyr Cys Pro Tyr Ser 55 Thr Gln Asn Leu Asn Glu Phe Thr Glu His Val Asp Met Gln His Pro 70 Asn Val Ile Leu Asn Pro Leu Tyr Val Cys Ala Glu Cys Asn Phe Thr . 85 90 Thr Lys Lys Tyr Asp Ser Leu Ser Asp His Asn Ser Lys Phe His Pro 100 105 110 Gly Glu Ala Asn Phe Lys Leu Lys Leu Ile Lys Arg Asn Asn Gln Thr 115 120 Val Leu Glu Gln Ser Ile Glu Thr Thr Asn His Val Val Ser Ile Thr 135 Thr Ser Gly Pro Gly Thr Gly Asp Ser Asp Ser Gly Ile Ser Val Ser Lys Thr Pro Ile Met Lys Pro Gly Lys Pro Lys Ala Asp Ala Lys Lys 170 Val Pro Lys Lys Pro Glu Glu Ile Thr Pro Glu Asn His Val Glu Gly 180 185 Thr Ala Arg Leu Val Thr Asp Thr Ala Glu Ile Leu Ser Arg Leu Gly 200 Gly Val Glu Leu Leu Gln Asp Thr Leu Gly His Val Met Pro Ser Val 215 220 Gln Leu Pro Pro Asn Ile Asn Leu Val Pro Lys Val Pro Val Pro Leu 230 235 Asn Thr Thr Lys Tyr Asn Ser Ala Leu Asp Thr Asn Ala Thr Met Ile 250 Asn Ser Phe Asn Lys Phe Pro Tyr Pro Thr Gln Ala Glu Leu Ser Trp 260 265 Leu Thr Ala Ala Ser Lys His Pro Glu Glu His Ile Arg Ile Trp Phe 280 285 Ala Thr Gln Arg Leu Lys His Gly Ile Ser Trp Ser Pro Glu Glu Val 295 Glu Glu Ala Arg Lys Lys Met Phe Asn Gly Thr Ile Gln Ser Val Pro

```
11 U 77/V74UJ
 305
                   310
 Pro Thr Ile Thr Val Leu Pro Ala Gln Leu Ala Pro Thr Lys Met Thr
                                  330
 Gln Pro Ile Leu Gln Thr Ala Leu Pro Cys Gln Ile Leu Gly Gln Thr
                              345
 Ser Leu Val Leu Thr Gln Val Thr Ser Gly Ser Thr Thr Val Ser Cys
                           360
 Ser Pro Ile Thr Leu Ala Val Ala Gly Val Thr Asn His Gly Gln Lys
                       375
 Arg Pro Leu Val Thr Pro Gln Ala Ala Pro Glu Pro Lys Arg Pro His
                   390
                                      395
 Ile Ala Gln Val Pro Glu Pro Pro Pro Lys Val Ala Asn Pro Pro Leu
                405
                                  410
 Thr Pro Ala Ser Asp Arg Lys Lys Thr Lys Glu Gln Ile Ala His Leu
    420-430-
 Lys Ala Ser Phe Leu Gln Ser Gln Phe Pro Asp Asp Ala Glu Val Tyr
                           440
 Arg Leu Ile Glu Val Thr Gly Leu Ala Arg Ser Glu Ile Lys Lys Trp
                       455
 Phe Ser Asp His Arg Tyr Arg Cys Gln Arg Gly Ile Val His Ile Thr
                   470
                                     475
 Ser Glu Ser Leu Ala Lys Asp Gln Leu Ala Ile Ala Ala Ser Arg His
  Gly Arg Thr Tyr His Ala Tyr Pro Asp Phe Ala Pro Gln Lys Phe Lys
            500
                              505
 Glu Lys Thr Gln Gly Gln Val Lys Ile Leu Glu Asp Ser Phe Leu Lys
                          520
 Ser Ser Phe Pro Thr Gln Ala Glu Leu Asp Arg Leu Arg Val Glu Thr
 530
                       535
Lys Leu Ser Arg Arg Glu Ile Asp Ser Trp Phe Ser Glu Arg Arg Lys
      550
                                      555
 Leu Arg Asp Ser Met Glu Gln Ala Val Leu Asp Ser Met Gly Ser Gly
        565
                                 570
 Gln Lys Arg Pro Arg Cys Gly Lys Pro Pro Met Val Leu Cys Leu Asp
            580
                              585
  Ser Asn Ser Ser Pro Val Pro Ser
         595
                           600
       <210> 53
```

<211> 163

<212> PRT

<213> Homo Sapiens

<400> 53

 Arg
 Lys
 Ser
 Trp
 Glu
 His
 Lys
 Glu
 Glu
 Ile
 Ser
 Glu
 Ala
 Gly
 Pro
 Gly

 Gly
 Gly
 Ser
 Leu
 Gly
 Asp
 Gly
 Arg
 Pro
 Pro
 Glu
 Glu
 Ser
 Ala
 His
 Glu
 Glu
 Glu
 Glu
 Ile
 Pro
 Lys
 Pro
 Lys
 Ser
 Val
 Val
 Ala
 TT C 7/107403

85 90 Thr Trp Tyr Leu Ser Trp Ala Leu Asp Thr Asn Gln Glu Glu Arg Asp 105 100 Lys Gly Lys Thr Val Glu Val Gly Arg Ala Tyr Phe Glu Thr Glu Lys 120 Lys His Phe Thr Ile Leu Asp Met Asn Pro Arg Thr Leu Ser Ser Lys 135 Pro Lys Ala Gln Asn Leu Lys Leu Lys Val Pro Asn Ser Lys Val Arg 150 155 Arg Cys Phe <210>.54 <211> 155 <212>-PRT-<213> Homo Sapiens <400> 54 Glu Arg Trp Pro Glu Glu Gly Thr Ala Asp Leu Ala Gln Ser Gly Leu Glu Gly Gly Thr Thr Arg Ala Ser Val Ser Trp Cys Cys Leu Glu Gly 25 Ser-Trp-Leu Leu Ser-Gly Tyr-Leu-Thr-Phe Leu Lys-Thr-Cys-Ser-His-40 45 Thr Ala Ser Leu Ala Val Ser Ser Ser Ser Cys Arg Ile Arg His Glu 55 Leu Val Pro Asn Ser Ala Arg Gly Lys His Tyr Ser Gln Arg Trp Ala 70 75 Gln Glu Asp Leu Leu Glu Glu Gln Lys Asp Gly Ala Arg Ala Ala Ala 90. Val Ala Asp Lys Lys Gly Leu Met Gly Pro Leu Thr Glu Leu Asp 105 Thr Lys Asp Val Asp Ala Leu Leu Lys Lys Ser Glu Ala Gln His Glu 120 125 Gln Pro Glu Asp Gly Cys Pro Phe Gly Ala Leu Thr Gln Arg Leu Leu 135 Gln Ala Leu Val Glu Glu Asn Ile Ile Phe Ser 150 <210> 55 <211> 112 <212> PRT <213> Homo Sapiens <400> 55 Ser Glu Arg Ala Leu Ala Pro Arg Thr Tyr Arg Met Glu Thr Ala Arg 10 Ser Ala Pro Tyr Met Arg Ser Met Met Gln Ser Leu Ser Gln Asn Pro 25

 Ser Glu Arg
 Ala Leu Ala Pro Arg
 Thr Tyr Arg
 Met Glu Thr Ala Arg
 Arg
 15

 Ser Ala Pro Tyr Met Arg
 Ser Met Met Gln Ser Leu Ser Gln Asn Pro 20
 25
 30
 30

 Asp Leu Ala Ala Gln Met Met Leu Asn Ser Pro Leu Phe Thr Ala Asn 35
 40
 45
 45

 Pro Gln Leu Gln Glu Gln Met Arg Pro Gln Leu Pro Ala Phe Leu Gln 50
 55
 60
 60

 Gln Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn Pro Arg Ala 65
 70
 75
 80

YY U ファ/リサムリン Met Gln Ala Leu Met Gln Ile Gln Gln Gly Leu Gln Thr Leu Ala Thr 90 Glu Ala Pro Gly Leu Ile Pro Ser Phe Thr Pro Gly Val Gly Val Gly 105 <210> 56 <211> 151 <212> PRT "" <213> Homo Sapiens <400> 56 Lys Phe Gly Met Pro Ile Asp Cys Gly Leu Pro Pro His Ile Asp Phe 10 Gly Asp Cys Thr Lys Leu Lys Asp Asp Gln Gly Tyr Phe Glu Gln Glu 25 30 Asp Asp Met Met Glu Val Pro Tyr Val Thr Pro His Pro Pro Tyr His Leu Gly Ala Val Ala Lys Thr Trp Glu Asn Thr Lys Glu Ser Pro Ala 55 Thr His Ser Ser Asn Phe Leu Tyr Gly Thr Met Val Ser Tyr Thr Cys Asn Pro Gly Tyr Glu Leu Leu Gly Asn Pro Val Leu Ile Cys Gln Glu 85 -----Asp Gly Thr Trp Asn Gly Ser Ala Pro Ser Cys Ile Ser Ile Glu Cys 100 105 Asp Leu Pro Thr Ala Pro Glu Asn Gly Phe Leu Arg Phe Thr Glu Thr 115 120 Ser Met Gly Ser Ala Val Gln Tyr Ser Cys Lys Pro Gly His Ile Leu .135 . 140 Ala Gly Ser Asp Leu Arg Leu 150 <210> 57 <211> 220 <212> PRT <213> Homo Sapiens <400> 57 Ala Ala Phe Val Ser Glu Val Thr Ser Phe Pro Val Val Gln Leu His Met Asn Arg Thr Ala Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser 25 Ile Asn Gln Val Lys Leu Lys Lys Asp Pro Gly Asn Glu Val Lys 40 Leu Lys Leu Tyr Ala Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp 70 75

Ala Trp Asn Ala Leu Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn 90 Tyr Val Asp Leu Val Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu 120 Val Val Thr Ser Glu Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro

```
135
Lys Lys Asn Ala Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg
                    150
                                        155
Ala Leu Lys Ala Ala Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr
                                    170
Gly Asn Gly Asp Tyr Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr
                                185
Asp Ile Pro Pro Gly Gly Val Glu Lys Ala Lys Asn Asn Ala Val Leu
                            200
Leu Lys Gly Ile Cys Gly Leu Phe Tyr Arg Ile Ser
      <210> 58
      <211> 101
     <212> PRT ---
      <213> Homo Sapiens
      <400> 58
Trp Pro Asp Leu Val His Thr Trp Ser Ser Glu Glu Ala Met Gly Ser
Cys Cys Ser Cys Pro Asp Lys Asp Thr Val Pro Asp Asn His Arg Asn
Lys Phe Lys Val He Asn Val Asp Asp Asp Gly Asn Glu Leu Gly Ser
                                                45
Gly Ile Met Glu Leu Thr Asp Thr Glu Leu Ile Leu Tyr Thr Arg Lys
                        55
Arg Asp Ser Val Lys Trp His Tyr Leu Cys Leu Arg Arg Tyr Gly Tyr
                    70
                                        75
Asp Ser Asn Leu Phe Ser Phe Glu Ser Gly Pro Arg Cys Gln Thr Gly
                85 . .
Thr Arg Asn Leu Cys
            100
      <210> 59
      <211> 43
      <212> PRT
      <213> Homo Sapiens
      <400> 59
Ala His Gly Pro Gly Val Glu Pro Thr Ser Arg His Gln Lys Asn Asn
                 5
                                     10
Leu Ser Ser Ser His Thr Val Arg Leu Glu Thr Arg Gly Gln Thr Glu
Asn Gln Glu Cys Leu Leu Cys Pro His Glu Glu
       <210> 60
       <211> 210
       <212> PRT
       <213> Homo Sapiens
       <400> 60
Leu Asn Gln Trp Thr Tyr Gln Ala Met Val His Glu Leu Leu Gly Ile
                                     10
Asn Asn Asn Arg Ile Asp Leu Ser Arg Val Pro Gly Ile Ser Lys Asp
```

```
Leu Arg Glu Val Val Leu Ser Ala Glu Asn Asp Glu Phe Tyr Ala Asn
Asn Met Tyr Leu Asn Phe Ala Glu Ile Gly Ser Asn Ile Lys Asn Leu
Met Glu Asp Phe Gln Lys Lys Lys Pro Lys Glu Gln Gln Lys Leu Glu
                   70
                                     . 75
Ser Ile Ala Asp Met Lys Ala Phe Val Glu Asn Tyr Pro Gln Phe Lys
                                   90
Lys Met Ser Gly Thr Val Ser Lys His Val Thr Val Val Gly Glu Leu
                               105
Ser Arg Leu Val Ser Glu Arg Asn Leu Leu Glu Val Ser Glu Val Glu
       115
                           120
Gln Glu Leu Ala Cys Gln Asn Asp His Ser Ser Ala Leu Gln Asn Ile
Lys Arg Leu Leu Gln Asn Pro Lys Val Thr Glu Phe Asp Ala Ala Arg
                   150
                                       155
Leu Val Met Leu Tyr Ala Leu His Tyr Glu Arg His Ser Ser Asn Ser
               165
                                   170
Leu Pro Gly Leu Met Met Leu Arg Asn Lys Gly Val Ser Glu Lys Tyr
                               185
Arg Lys Leu Val Ser Ala Val Val Glu Tyr Gly Gly Lys Thr Ser Gln
             200
Arg Lys
   210
     <210> 61
      <211> 40
     <212> PRT
   <213> Homo Sapiens
      <400> 61
Thr Pro Gly Pro Gly Ala Gly Phe Tyr Ala Cys Pro Ala Arg Pro Leu
Val Ser Gly Ile Tyr Ser Phe Arg Trp Val Arg Gly Leu Ala Asp Gln
                               25
Glu Arg Asn Trp Gly Leu Ser Gln
      <210> 62
      <211> 238
      <212> PRT
      <213> Homo Sapiens
      <400> 62
His Glu Ala Arg Leu Lys Arg Ala Ser Ala Pro Thr Phe Asp Asn Asp
Tyr Ser Leu Ser Glu Leu Ser Gln Leu Asp Ser Gly Val Ser Gln
                               25
Ala Val Glu Gly Pro Glu Glu Leu Ser Arg Ser Ser Ser Glu Ser Lys
                           40
Leu Pro Ser Ser Gly Ser Gly Lys Arg Leu Ser Gly Val Ser Ser Val
                                           60
Asp Ser Ala Phe Ser Ser Arg Gly Ser Leu Ser Leu Ser Phe Glu Arg
                                      75
```

```
Glu Pro Ser Thr Ser Asp Leu Gly Thr Thr Asp Val Gln Lys Lys
               85
Leu Val Asp Ala Ile Val Ser Gly Asp Thr Ser Lys Leu Met Lys Ile
                                105
Leu Gln Pro Gln Asp Val Asp Leu Ala Leu Asp Ser Gly Ala Ser Leu
                           120
Leu His Leu Ala Val Glu Ala Gly Gln Glu Glu Cys Ala Lys Trp Leu
                     135
                                            140 ...
Leu Leu Asn Asn Ala Asn Pro Asn Leu Ser Asn Arg Arg Gly Ser Thr
                                       155
                    150
Pro Leu His Met Ala Val Glu Arg Arg Val Arg Gly Val Val Glu Leu
                                    170
Leu Leu Ala Arg Ile Ser Val Asn Ala Lys Asp Glu Asp Gln Trp Thr
                              . 185
Ala Leu His Phe Ala Asn Gly Gly Val His Thr Ala Ala Val Gly Glu
                            200
Arg Leu Gly Gln Thr Lys Val Asp Phe Glu Gly Arg Thr Pro Met Gln
                        215
Val Gly Leu Pro Thr Thr Gly Lys Asn Ile Leu Arg Ile Leu
                    230
      <210> 63
----<211>--146----
      <212> PRT
      <213> Homo Sapiens
      <400> 63
Arg Leu Gly Ala Ala Met Met Glu Gly Leu Asp Asp Gly Pro Asp Phe
Leu Ser Glu Glu Asp Arg Gly Leu Lys Ala Ile Asn Val Asp Leu Gln
                                25
Ser Asp Ala Ala Leu Gln Val Asp Ile Ser Asp Ala Leu Ser Glu Arg
                            40
Asp Lys Val Lys Phe Thr Val His Thr Lys Ile Pro Pro Ala Pro Pro
                        55
                                            60
Arg Pro Asp Phe Asp Ala Ser Arg Glu Lys Leu Gln Lys Leu Gly Glu
Gly Glu Gly Ser Met Thr Lys Glu Glu Phe Thr Lys Met Lys Gln Glu
                                    90
Leu Glu Ala Glu Tyr Leu Ala Ile Phe Lys Lys Thr Val Ala Met His
                                105
            100
 Glu Val Phe Leu Cys Arg Val Ala Ala His Pro Ile Leu Arg Arg Asp
                            120
 Leu Asn Phe His Val Phe Leu Glu Tyr Asn Gln Asp Leu Ser Val Arg
                         135
                                             140
 Gly Lys
 145
       <210> 64
       <211> 63
       <212> PRT
       <213> Homo Sapiens
```

-28-

Glu Arg Gly His Ser Ile Lys Asp Phe Val Ser Phe Ala Arg His Phe

<400> 64

すすひ ファノレヤムレン

エ ♥エノ ∪コフロノュマロノシ

```
Ser Pro Asn Pro Arg Ile Val Ser Val Asn Ala Ser Tyr Ser Leu Ser
                                25
Asn Glu Ser Ser Leu Glu Gln Val Tyr Thr Leu Lys Met Ser Phe Ile
                            40
Ala Ser Asn Thr Tyr His Asn Gln Leu Tyr Lys Glu Gly Phe Leu
                        55
      <210> 65
      <211> 199
      <212> PRT
      <213> Homo Sapiens
      <400> 65
Glu Ala Pro Asp Ser Ala Glu Gly Thr Thr Leu Thr Val Leu Pro Glu
                                    10
Gly Glu Glu Leu Pro Leu Cys Val Ser Glu Ser Asn Gly Leu Glu Leu
                                25
Pro Pro Ser Ala Ala Ser Asp Glu Pro Leu Gln Glu Pro Leu Glu Ala
Asp Arg Thr Ser Glu Glu Leu Thr Glu Ala Lys Thr Pro Thr Ser Ser
Pro Glu Lys Pro Gln Glu Leu Val Thr Ala Glu Val Ala Ala Pro Ser
                                        75
Thr Ser Ser Ser Ala Thr Ser Ser Pro Glu Gly Pro Ser Pro Ala Arg
Pro Pro Arg Arg Arg Thr Ser Ala Asp Val Glu Ile Arg Gly Gln Gly
            100
                                105
Thr Gly Arg Pro Gly Gln Pro Pro Gly Pro Lys Val Leu Arg Lys Leu
                            120
                                                125
Pro Gly Arg Leu Val Thr Val Val Glu Glu Lys Glu Leu Val Arg Arg
                        135
Arg Arg Gln Gln Arg Gly Ala Ala Ser Thr Leu Val Pro Gly Val Ser
                    150
                                        155
                                                            160
Glu Thr Ser Ala Ser Pro Gly Ser Pro Ser Val Arg Ser Met Ser Gly
                                    170
Pro Glu Ser Ser Pro Pro Ile Gly Gly Pro Cys Glu Ala Ala Pro Ser
            180
                                185
Ser Ser Leu Pro Thr Pro Pro
        195
      <210> 66
      <211> 1599
      <212> DNA
      <213> Homo Sapiens
      <400> 66
ttctttgaaa cattattatt cagaacgaag gagaatgata cagatacact ggctgaggtg
                                                                        60
ttttgaggtg cattgaaatg ttccatgctg ttacttaggt taacatgttc ttgaggtacc
                                                                       120
atgccatgga ttaaaaggaa atttggtaag tggcttccac ctaaacgact tactagggaa
                                                                       180
gctatgcgaa attatttaaa agggtaaggg gatcaaatag tacttatcct tcatgcaaaa
                                                                       240
gttgtacaga agtcatatgg caatcaaaaa atttttttt gccctccccc ttgtgtatat
                                                                       300
cttatgggca gtggatggaa gaaaaaaaa gaacaaatga aatgcgatgg ttgttctgaa
                                                                       360
cacagetete atecatgtge atttattggg ataggaaata gtgaccaaga aatgcagcag
                                                                       420
ctaaacttgg aaggaaagaa ctattgcaca gccaaaacat tgtacatatc tgattcagac
                                                                       480
```

```
aagcaaaagc acttcatttt ttctgtaaag gtgttctatg gcaacggtga tgacattggt
                                                                       540
gtgttcctca gcaagtagat aaaagtcatc tccaaacctt ccaaaaagaa gcagtcattg
                                                                       600
aaaaatgctg acttatgcat tgtctcagga acaaaggtgg ctctgtttaa tcgactacga
                                                                       660
tcccagacag ttagtaccag atacttgcat gtagaaggag gtaattttca tgccagttca
                                                                       720
cagcagtggg gagcatttta cattcaattc ttggatgatg atggatcaga aggagaagaa
                                                                       780
ttcacagtct gagatgccta cattcattat ggacaaacat gcaaacttgt gtgctcagtt
                                                                       840
actggcatgg cactcccaag attgataatt atgaaagttg ataagcatac cgcattattg
                                                                       900
gatgcagatg atcctgtgtc acaactccat aaatgtgcat tttaccttaa ggatacagaa
                                                                       960
agaatgtatt tgtgcctttc tcaagaaaga ataattcaat ttcaggccac tccatgtcca
                                                                      1020
agagaaccaa ataaagagat gataaatgat ggcgcttcct ggacaatcat tagcacagat
                                                                      1080
aaggcagggt atacatttta tgagggaatg ggccctgtcc ttgccccagt cactcctgtg
                                                                      1140
cctgtggtag agagccttca gttgaatggc ggtggggacg tagcaatgct tgaacttaca
                                                                      1200
ggacagaatt tcactccaaa tttacgagtg tggtttgggg gggtagaagc tgaaactatg
                                                                      1260
tacaggtgtg gagagagtat gctctgtgtc gtcccagaca tttctgcatt ccgagaaggt
                                                                      1320
tggagatggg tccggcaacc agtccaggtt ccagtaactt tggtccgaaa tgatggaatc
                                                                      1380
atttattcca ccagccttac ctttacctac acaccagaac cagggccgcg gccacattgc
                                                                      1440
agtgcagcag gagcaatcct tctagccaat tcaagccagg tgccccctaa cgaatcaaac
                                                                      1500
acaaacagcg agggaagtta cacaaacgcc agcacaaatt caaccagtgt cacatcatct
                                                                      1560
acagccacag tggtatccta actaccgtct ttttgctag
                                                                      1599
```

<210> 67 <211> 729

-<212>--PRT-----

<213> Homo Sapiens

<400> 67

Met Gly Lys Lys Tyr Lys Asn Ile Val Leu Leu Lys Gly Leu Glu Val 10 Ile Asn Asp Tyr His Phe Arg Met Val Lys Ser Leu Leu Ser Asn Asp 25 Leu Lys Leu Asn Leu Lys Met Arg Glu Glu Tyr Asp Lys Ile Gln Ile 40 Ala Asp Leu Met Glu Glu Lys Phe Arg Gly Asp Ala Gly Leu Gly Lys 55 Leu Ile Lys Ile Phe Glu Asp Ile Pro Thr Leu Glu Asp Leu Ala Glu 65 75 Thr Leu Lys Lys Glu Lys Leu Lys Val Lys Gly Pro Ala Leu Ser Arg 90 Lys Arg Lys Lys Glu Val His Ala Thr Ser Pro Ala Pro Ser Thr Ser 105 Ser Thr Val Lys Thr Glu Gly Ala Glu Ala Thr Pro Gly Ala Gln Lys 120 Arg Lys Lys Ser Thr Lys Glu Lys Ala Gly Pro Lys Gly Ser Lys Val 135. Ser Glu Glu Gln Thr Gln Pro Pro Ser Pro Ala Gly Ala Gly Met Ser 155 Thr Ala Met Gly Arg Ser Pro Ser Pro Lys Thr Ser Leu Ser Ala Pro 170 Pro Asn Ser Ser Ser Thr Glu Asn Pro Lys Thr Val Ala Lys Cys Gln 180 185 Val Thr Pro Arg Arg Asn Val Leu Gln Lys Arg Pro Val Ile Val Lys 200 205 Val Leu Ser Thr Thr Lys Pro Phe Glu Tyr Glu Thr Pro Glu Met Glu ... 215 220----Lys Lys Ile Met Phe His Ala Thr Val Ala Thr Gln Thr Gln Phe Phe

225					230					235					240
				245					250)				Gly	Lys
			260	*				265	Glu	Tyr			. 277	Leu	Glu
		2/5			Thr		280	1				205	Gln		
Glu	Val 290	Pro	Asn	Lys	Ile	Ile 295	Asn	Arg	Ala	Lys		Thr	Leu	Lys	Ile
Asp			His	Lvs	Gln			(C)	. 7	~1 -	300	_			Phe
305					310					315		-			
				325					330					22-	
Gln	Asp	Asp	Arg	Gly	Lys	Met	Asp	Val	Val	Gly	Thr	Glv	Gln	Cvs	His
			340					345					250		•
		333			Glu		360					365	Cys		_
Leu	Arg 370	Lys	Lys	Asn	Gln	Met 375	Ser	Lys	Leu	Ile	Ser 380	Glu	Met	His	Ser
Phe 385	Ile	Gln	Ile	Lys	Lys 390	Lys	Thr	Asn	Pro	Arg 395	Asn	Asn	Asp	Pro	
Ser	Met	Lys	Leu	Pro		Glu	Gln	Δτα	Gla	393	D	m	_	_	400 Glu
 				405					410	Leu	Pro	Tyr	Pro		
Ala	Ser	Thr	Thr 420		Pro				Leu	Arg	Thr	Pro		415 Met	Pro
Pro	Thr	Thr 435	Pro	Ser	Ser	Ser	Phe	Phe	Thr	Lys	Lys	Ser 445	430 Glu	Asp	Thr
Ile	Ser 450	Lys	Met	Asn	Asp	Phe	Met	Arg	Met	Gln	Ile 460	Leu	Lys	Glu	Gly
Ser	His	Phe	Pro	Ġlv	Pro	Phe	Met	Thr	C0~	т1 -	400	_			
465				2	470	:			per	116	GIY	Pro	Ala	Glu	
His	Pro				Gln	Mot	Dro	Dro.	C	475	_				480
				485					490					405	
			500		Pro			505							
		213			Gln		520					525			
	330				Val	535					540	Lys			
His	Ala	Thr	Val	Ala	Thr	Glu	Asn	Glu	Val	Phe	Ara	Val	Lve	Val	Dho
743					550					555					
				565	Glu				570					F 7 F	Ile
Ala	Asn	Tyr	Val 580	Cys	Arg	Asn	Gly	Phe 585	Leu	Glu	Val	Tyr		575 Phe	Thr
Leu	Val	Ala 595	Asp	Val	Asn	Ala	Asp 600	Ala	Asn	Met	Glu		590 Pro	Lys	Gly
Leu	Ile 610		Ser	Ala	Ser	Val	Thr	Pro	Lys	Ile	Asn	605 Gln	Leu	Cys	Ser
		Lys	Gly	Ser	Phe	615 Val	Asn.	Gly	Val	Phe	620 Glu	Val	His	Lys	Lys
023					630					635					
Asn				645					650					655	Gly
Lys	Mec	етп	Val 660	Val	Val	His	Gly	Arg 665	Leu	Asn	Thr	Ile	Asn 670	Cys	Glu

77 UT/10070/1707

<210> 68 <211> 754 <212> PRT <213> Homo Sapiens

<400> 68 Met Ala Ser Val Pro Ala Leu Gln Leu Thr Pro Ala Asn Pro Pro 5 Pro Glu Val Ser Asn Pro Lys Lys Pro Gly Arg Val Thr Asn Gln Leu Gln Tyr Leu His Lys Val Val Met Lys Ala Leu Trp Lys His Gln Phe Ala Trp Pro Phe Arg Gln Pro Val Asp Ala Val Lys Leu Gly Leu Pro Asp Tyr His Lys Ile Ile Lys Gln Pro Met Asp Met Gly Thr Ile Lys 70 Arg Arg Leu Glu Asn Asn Tyr Tyr Trp Ala Ala Ser Glu Cys Met Gln 85 90 Asp Phe Asn Thr Met Phe Thr Asn Cys Tyr Ile Tyr Asn Lys Pro Thr 100 : 105 110 Asp Asp Ile Val Leu Met Ala Gln Thr Leu Glu Lys Ile Phe Leu Gln 120 Lys Val Ala Ser Met Pro Gln Glu Glu Glu Leu Val Val Thr Ile 130 135 140 Pro Lys Asn Ser His Lys Lys Gly Ala Lys Leu Ala Ala Leu Gln Gly 150 155 Ser Val Thr Ser Ala His Gln Val Pro Ala Val Ser Ser Val Ser His 165 170 Thr Ala Leu Tyr Thr Pro Pro Pro Glu Ile Pro Thr Thr Val Leu Asn 180 185 Ile Pro His Pro Ser Val Ile Ser Ser Pro Leu Leu Lys Ser Leu His Ser Ala Gly Pro Pro Leu Leu Ala Val Thr Ala Ala Pro Pro Ala Gln 215 220 Pro Leu Ala Lys Lys Lys Gly Val Lys Arg Lys Ala Asp Thr Thr . 230 235 Pro Thr Pro Thr Ala Ile Leu Ala Pro Gly Ser Pro Ala Ser Pro Pro 245 250 Gly Ser Leu Glu Pro Lys Ala Ala Arg Leu Pro Pro Met Arg Arg Glu 265 Ser Gly Arg Pro Ile Lys Pro Pro Arg Lys Asp Leu Pro Asp Ser Gln 280 285 Gln Gln His Gln Ser Ser Lys Lys Gly Lys Leu Ser Glu Gln Leu Lys 295 His Cys Asn Gly Ile Leu Lys Glu Leu Leu Ser Lys Lys His Ala Ala

310

Tyr	Ala	Trp	Pro	Phe 325	Tyr	Lys	Pro	Val	Asp		Ser	Ala	Leu		Leu
His	Asp	Tyr	His		Ile	Ile	Lys	His	Pro		Asp	Leu		335 Thr	Val
Lys	Arg	Lys 355	Met	Glu	Asn	Arg	Asp 360	Tyr		Asp	Ala		350 Glu	Phe	Ala
Ala	Asp			Leu	Met	Phe			Cys	Tyr	Lys	365 Tyr	Asn	Pro	Pro
Asp 385		Asp	Val	Val	Ala 390		Ala	Arg	Lys			Asp	Val	Phe	
	Arg	Tyr	Ala	Lys	Met	Pro	Asp	Glu	Pro	395 Leu	Glu	Pro	Gly	Pro	400 Leu
				405					410					415	
			420		Met			425					430		
Ser	Ser	Ser 435	Glu	Glu	Ser	Ser	Ser 440	Glu	Ser	Ser	Ser		Glu	Glu	Glu
Glu	Glu		Glu	Glu	Asp	Glu		Glu	Glu	Glu	Ser	445 Glu	Ser	Ser	Asp
	450				Ala	455					460				_
465					470					475					190
Arg	Ala	Val	His	Glu 485	Gln	Leu	Ala	Ala	Leu 490	Ser	Gln	Gly	Pro		Ser
-Lys	Pro	Lys-	Arg		Arg	Glu	Lys	Lÿs	Glu	Lys	Lys	Lys	Lys	495 Arg	Lvs
			500					505					510		_
		515			Gly		520					525			-
	530				Pro	535					540				
Gly 545	Ser	Gly	Gly	Gly	Ser			Leu	Gly	Pro			Phe	Gly	Pro
	Gly	Gly	Ser	Gly	550 Thr		Leu	Pro	Lvs	555 Lvs	Δla	Thr	Lvc	mh w	560
	•			565					570				:	575	
			580		Thr			585					590		
		595			Asp		600					605			
	610				Lys	615					620	Ile			
Arg 625	Glu	Pro	Ser	Leu	Arg 630	Asp	Ser	Asn	Pro	Glu 635	Glu	Ile	Glu	Ile	
Phe	Glu	Thr	Leu	Lys 645	Pro	Ser	Thr	Leu	Arg 650	Glu	Leu	Glu	Arg		640 Val
Leu	Ser	Cys	Leu 660	Arg	Lys	Lys	Pro	Arg 665	Lys	Pro	Tyr	Thr		655 Lys	Lys
Pro	Val	Gly 675			Lys	Glu	Glu 680	Leu	Ala	Leu	Glu		670 Lys	Arg	Glu
Leu	Glu 690		Arg	Leu	Gln	Asp		Ser	Gly	Gln	Leu 700	685 Asn	Ser	Thr	Lys
Lys	Pro	Pro	Lys	Lys	Ala		Glu	Lys	Thr	Glu	Ser	Ser	Ser	Ala	Gln
/05					710			•		715					720
				725	Arg				730					735	
Ser	Ser	Ser	Ser 740	Ser	Ser	Ser	Ser	Ser			Thr			Ser	Asp
Ser	Gly				•	٠						•	750		

<210> 69

<211> 210 <212> PRT <213> Homo Sapiens <400> 69 Met Asp Asp Glu Glu Glu Thr Tyr Arg Leu Trp Lys Ile Arg Lys Thr Ile Met Gln Leu Cys His Asp Arg Gly Tyr Leu Val Thr Gln Asp Glu 25 Leu Asp Gln Thr Leu Glu Glu Phe Lys Ala Gln Phe Gly Asp Lys Pro 40 Ser Glu Gly Arg Pro Arg Arg Thr Asp Leu Thr Val Leu Val Ala His Asn Asp Asp Pro Thr Asp Gln Met Phe Val Phe Pro Glu Glu Pro 75 Lys Val Gly Ile Lys Thr Ile Lys Val Tyr Cys Gln Arg Met Gln Glu 85 90 Glu Asn Ile Thr Arg Ala Leu Ile Val Val Gln Gln Gly Met Thr Pro 105 Ser Ala Lys Gln Ser Leu Val Asp Met Ala Pro Lys Tyr Ile Leu Glu 120 Gln Phe Leu Gln Gln Glu Leu Leu Ile Asn Ile Thr Glu His Glu Leu 135 140 Val Pro Glu His Val Val Met Thr Lys Glu Glu Val Thr Glu Leu Leu 150 . 155 Ala Arg Tyr Lys Leu Arg Glu Asn Gln Leu Pro Arg Ile Gln Ala Gly 170 165 Asp Pro Val Ala Arg Tyr Phe Gly Ile Lys Arg Gly Gln Val Val Lys 180 185 Ile Ile Arg Pro Ser Glu Thr Ala Gly Arg Tyr Ile Thr Tyr Arg Leu 200 Val Gln 210 <210> 70 <211> 621 <212> PRT <213> Homo Sapiens <400> 70 Met Leu Leu Pro Ser Ala Ala Glu Gly Gln Gly Thr Ala Ile Thr His Ala Leu Thr Ser Ala Ser Ser Val Cys Gln Val Glu Pro Val Gly 25 Arg Trp Phe Glu Ala Phe Val Lys Arg Arg Asn Arg Asn Ala Ser Thr Ser Phe Gln Glu Leu Glu Asp Lys Lys Glu Leu Ser Glu Glu Ser Glu 55 Asp Glu Glu Leu Gln Leu Glu Phe Pro Met Leu Lys Thr Leu Asp 70 75 Pro Lys Asp Trp Lys Asn Gln Asp His Tyr Ala Val Leu Gly Leu Gly

90

プレンプレンカリン エンエノ いじノい エマエ

```
His Val Arg Tyr Thr Ala Thr Gln Arg Gln Ile Lys Ala Ala His Lys
            100
Ala Met Val Leu Lys His His Pro Asp Lys Arg Lys Ala Ala Gly Glu
                            120
Pro Ile Lys Glu Gly Asp Asn Asp Tyr Phe Thr Cys Ile Thr Lys Ala
                        135
Tyr Glu Met Leu Ser Asp Pro Val Lys Arg Arg Ala Phe Asn Ser Val
                    150
Asp Pro Thr Phe Asp Asn Ser Val Pro Ser Lys Ser Glu Ala Lys Asp
                165
                                    170
Asn Phe Phe Gln Val Phe Ser Pro Val Phe Glu Arg Asn Ser Arg Trp
                                185
Ser Asn Lys Lys Asn Val Pro Lys Leu Gly Asp Met Asn Ser Ser Phe
                            200
Glu Asp Val Asp Ala Phe Tyr Ser Phe Trp Tyr Asn Phe Asp Ser Trp
                        215
                                            220
Arg Glu Phe Ser Tyr Leu Asp Glu Glu Glu Lys Glu Lys Ala Glu Cys
                    230
                                        235
Arg Asp Glu Arg Lys Trp Ile Glu Lys Gln Asn Arg Ala Thr Arg Ala
                245
                                    250
Gln Arg Lys Lys Glu Glu Met Asn Arg Ile Arg Thr Leu Val Asp Asn
                                265
Ala Tyr Ser Cys Asp Pro Arg Ile Lys Lys Phe Lys Glu Glu Glu Lys
                            280
Ala Lys Lys Glu Ala Glu Lys Lys Ala Lys Ala Glu Ala Arg Arg Lys
                        295
Glu Gln Glu Ala Lys Glu Lys Gln Arg Gln Ala Glu Leu Glu Ala Val
                    310
                                        315
Arg Leu-Ala Lys Glu Lys Glu Glu Glu Val Arg Gln Gln Ala Leu
      325
                                    330
                                                        335
Leu Ala Lys Lys Glu Lys Asp Ile Gln Lys Lys Ala Ile Lys Lys Glu
         340
                                345
Arg Gln Lys Leu Arg Asn Ser Cys Lys Ser Trp Asn His Phe Ser Asp
                          360
                                                365
Asn Glu Ala Asp Arg Val Lys Met Met Glu Glu Val Glu Lys Leu Cys
                        375
Asp Arg Leu Glu Leu Ala Ser Leu Gln Gly Leu Asn Glu Ile Leu Ala
                    390
                                        395
Ser Ser Thr Arg Glu Val Gly Lys Ala Ala Leu Glu Lys Gln Ile Glu
                405
                                    410
Glu Val Asn Glu Gln Met Arg Arg Glu Lys Glu Glu Ala Asp Ala Arg
                                425
Met Arg Gln Ala Ser Lys Asn Ala Glu Lys Ser Thr Gly Gly Ser Gly
                           440
                                                445
Ser Gly Ser Lys Asn Trp Ser Glu Asp Asp Leu Gln Leu Leu Ile Lys
                        455
Ala Val Asn Leu Phe Pro Ala Gly Thr Asn Ser Arg Trp Glu Val Ile
                    470
                                        475
Ala Asn Tyr Met Asn Ile His Ser Ser Ser Gly Val Lys Arg Thr Ala
                485
                                    490
Lys Asp Val Ile Ser Lys Ala Lys Ser Leu Gln Lys Leu Asp Pro His
                                505
Gln Lys Asp Asp Ile Asn Lys Lys Ala Phe Asp Lys Phe Lys Lys Glu
                            520
His Gly Val Ala Ser Gln Ala Asp Ser Ala Ala Pro Ser Glu Arg Phe
```

マチゼ フブ/リキ4リン よ ヘエ・ロック・コート

535 540 Glu Gly Pro Cys Ile Asp Ser Thr Pro Trp Thr Thr Glu Glu Gln Lys 550 555 Leu Leu Glu Gln Ala Leu Lys Thr Tyr Pro Val Asn Thr Pro Glu Arg Trp Glu Lys Ile Ala Glu Ala Val Pro Gly Arg Thr Lys Lys Asp Cys 585 Met Arg Arg Tyr Lys Glu Leu Val Glu Met Val Lys Ala Lys Lys Ala 600 Ala Gln Glu Gln Val Leu Asn Ala Ser Arg Ala Arg Lys 615 <210> 71 <211> 267 <212> PRT <213> Homo Sapiens <400> 71 Met Ala Ser Leu Leu Lys Val Asp Gln Glu Val Lys Leu Lys Val Asp 10 Ser Phe Arg Glu Arg Ile Thr Ser Lys Ala Glu Asp Leu Val Ala Asn Phe Phe Pro Lys Lys Leu Leu Glu Leu Asp Ser Phe Leu Lys Glu Pro Ile Leu Asn Ile His Asp Leu Thr Gln Ile His Ser Asp Met Asn Leu

50 55 60

Dre Val Dre Age Dre Tle Lou Leu The Age Cox Mig Age Clu Leu Age

Pro Val Pro Asp Pro Ile Leu Leu Thr Asn Ser His Asp Gly Leu Asp 65 70 75 80

Gly Pro Thr Tyr Lys Lys Arg Arg Leu Asp Glu Cys Glu Glu Ala Phe 85 90 95

Gln Gly Thr Lys Val Phe Val Met Pro Asn Gly Met Leu Lys Ser Asn 100 105 110

Gln Gln Leu Val Asp Ile Ile Glu Lys Val Lys Pro Glu Ile Arg Leu 115 120 125

Leu Ile Glu Lys Cys Asn Thr Pro Ser Gly Lys Gly Pro His Ile Cys 130 135 140

Phe Asp Leu Gln Val Lys Met Trp Val Gln Leu Leu Ile Pro Arg Ile 145 150 155 160

Glu Asp Gly Asn Asn Phe Gly Val Ser Ile Gln Glu Glu Thr Val Ala 165 170 175

Glu Leu Arg Thr Val Glu Ser Glu Ala Ala Ser Tyr Leu Asp Gln Ile 180 185 190

Ser Arg Tyr Tyr Ile Thr Arg Ala Lys Leu Val Ser Lys Ile Ala Lys
195 200 205

Tyr Pro His Val Glu Asp Tyr Arg Arg Thr Val Thr Glu Ile Asp Glu 210 215 220

Lys Glu Tyr Ile Ser Leu Arg Leu Ile Ile Ser Glu Leu Arg Asn Gln 225 230 235 240

Tyr Val Thr Leu His Asp Met Ile Leu Lys Asn Ile Glu Lys Ile Lys 245 250 255

Arg Pro Arg Ser Ser Asn Ala Glu Thr Leu Tyr
260 265

<210> 72 <211> 1752 <212> PRT <213> Homo Sapiens

<400> 72 Arg Glu Lys Arg Arg Arg Lys Ser Val Glu Asp Arg Phe Asp Gln Gln 10 Lys Asn Asp Tyr Asp Gln Leu Gln Lys Ala Arg Gln Cys Glu Lys Glu Asn Leu Gly Trp Gln Lys Leu Glu Ser Glu Lys Ala Ile Lys Glu Lys 35 Glu Tyr Glu Ile Glu Arg Leu Arg Val Leu Leu Gln Glu Glu Gly Thr Arg Lys Arg Glu Tyr Glu Asn Glu Leu Ala Lys Val Arg Asn His Tyr 70 Asn Glu Glu Met Ser Asn Leu Arg Asn Lys Tyr Glu Thr Glu Ile Asn 85 90 Ile Thr Lys Thr Thr Ile Lys Glu Ile Ser Met Gln Lys Glu Asp Asp 105 Ser Lys Asn Leu Arg Asn Gln Leu Asp Arg Leu Ser Arg Glu Asn Arg 120 Asp Leu Lys Asp Glu Ile Val Arg Leu Asn Asp Ser Ile Leu Gln Ala 135 Thr Glu Gln Arg Arg Ala Glu Glu Asn Ala Leu Gln Gln Lys Ala 150 155 Cys Gly Ser Glu Ile Met Gln Lys Lys Gln His Leu Glu Ile Glu Leu 165 170 Lys Gln Val Met Gln Gln Arg Ser Glu Asp Asn Ala Arg His Lys Gln 185 Ser Leu Glu Glu Ala Ala Lys Thr Ile Gln Asp Lys Asn Lys Glu Ile 200 205 Glu Arg Leu Lys Ala Glu Phe Gln Glu Glu Ala Lys Arg Arg Trp Glu 215 Tyr Glu Asn Glu Leu Ser Lys Val Arg Asn Asn Tyr Asp Glu Glu Ile 235 Ile Ser Leu Lys Asn Gln Phe Glu Thr Glu Ile Asn Ile Thr Lys Thr 250 Thr Ile His Gln Leu Thr Met Gln Lys Glu Glu Asp Thr Ser Gly Tyr 265 Arg Ala Gln Ile Asp Asn Leu Thr Arg Glu Asn Arg Ser Leu Ser Glu 280 285 Glu Ile Lys Arg Leu Lys Asn Thr Leu Thr Gln Thr Thr Glu Asn Leu 295 300 Arg Arg Val Glu Glu Asp Ile Gln Gln Gln Lys Ala Thr Gly Ser Glu 310 315 Val Ser Gln Arg Lys Gln Gln Leu Glu Val Glu Leu Arg Gln Val Thr 325 Gln Met Arg Thr Glu Glu Ser Val Arg Tyr Lys Gln Ser Leu Asp Asp 345 Ala Ala Lys Thr Ile Gln Asp Lys Asn Lys Glu Ile Glu Arg Leu Lys 360 Gln Leu Ile Asp Lys Glu Thr Asn Asp Arg Lys Cys Leu Glu Asp Glu 375 380 Asn Ala Arg Leu Gln Arg Val Gln Tyr Asp Leu Gln Lys Ala Asn Ser 390 ... 395 Ser Ala Thr Glu Thr Ile Asn Lys Leu Lys Val Gln Glu Gln Glu Leu

				405					410					415	
Thr	Arg	Leu	Arg 420	Ile	Asp	Tyr		Arg. 425	Val	Ser	Gln	Glu	Arg 430	Thr	.Val
Lys	Asp	Gln 435	Asp	Ile	Thr	Arg	Phe 440				Leu	_	Glu	Leu	Gln
	450	Lys				455					460			_	
465		Glu			470					475					480
		Arg		485					490					495	
		Gln	500					505					510		
Asp	Leu	Arg	GIn	Gln	Arg	Asp	Val	Leu	Asp	Gly	His	Leu	Arg	Glu	Lys
C1 5		515													
	530	Thr				535					540				
545		Arg			550					555					560
		Asn		565					570					575	
ьеu	ASII	Glu	-580		- · · ·	GIU	тте	GIU	Arg	Leu	GIn	Ser	Leu	Thr	Glu
		Thr 595													
Arg	Leu 610	Glu	Tyr	Asp	Asp	Leu 615		Arg		Arg			Ala	Asp	Ser
Asp	Lys	Asn	Ala	Thr.	IÌe	Leu	Glu	Leu	Arg	Ser	Gln	Leu	Gln	Ile	Ser
625	. W	::::::::::::::::::::::::::::::::::::::		:	630					635					640
Asn	Asn	Arg	Thr	Leu	Glu	Leu	Gln	Gly	Leu	Ile	Asn	Asp	Leu	Gln	Arg
		i is inter-												655	
GIU	Arg	Glu	Asn	Leu	Arg	Gln	Glu	Ile	Glu	Lys	Phe	Gln	_		Ala
		. 11 1 7 7 7										~3	670		
			**		•		680					685	_		
Val	690	Gln			GIU							гàг		Leu	Glu
Gln 705														-	Ala
	Ser	Thr	Leu	Glu		Glu	Thr	Ara	Val		Gln	Δνα	T.All		720 Cvc
		Gln		725					730					735	-
		Lys	740					745					750		
		755		•			760					765			Gln
	770					775					780				
785	GIU	тте	гуѕ	Arg	790	GIU	GIU	Arg	Cys		Arg	Lys	Leu	Glu	Asp
	Thr	Arg	Glu			Ser	Gln	Leu		795 Thr	Glu	Arg	Ser		800 Tyr
Gln	Arg	Glu	Ile	805 Asp	Lys	Leu	Arg		810 Arg	Pro	Tyr	Gly		815 His	Arg
۵lıı	ጥ ኮ	Gln	820 Thr	Gl 11	Cve.	Gl 11	Trans	825	1707	7 ~~	mh	C	830	T = .	
GIU	* 111	835	.444	GIU	Cys	GIU	840	·IIIT	val	Asp	Tnr	Ser 845	-rÀs	ren	Val

to entropy of the following street in the second street in the second street in the second se

/ ファルマン エンス/ US70/エマン

	Asp 850					855					860				-
Gln 865	Leu	Ile	Asp	Lys	Thr 870	Thr	Leu	Asp	Lys	Leu 875	Leu	Lys	Gly	Lys	_
Ser	Val	Glu	Glu		Ala		Glu	Tla	Gln	075	Dho	T			880
				885					890	PIO	Pne	тел	Arg		Ala
Gly	Ser	Ile	Ala	Gly	Ala	Ser	Ala	Ser	Pro	Lve	Gl 11	T	m	895	_
			900	-				905		Lys	Giu	пåг	-	ser	Leu
Val	Glu	Ala	Lys	Arg	Lys	Lys	Leu	Ile	Ser	Pro	Glu	Co~	910	17- 1	
		312					920					925			
Leu	Leu	Glu	Ala	Gln	Ala	Ala	Thr	Glv	Glv	Tle	Tla	700	Dwa	***	_
	230					935					940				
Asn	Glu	Lys	Leu	Thr	Val	Asp	Ser	Ala	Ile	Δla	Ara	λαν	T 011	77.	_
223					950					955					
 Phe	Asp	Asp	Arg	Gln	Gln	Ile	Tyr	Ala	Ala	Glu	Lvs	ΔΊα	TIA	The	960
				965					970					075	_
Phe	Asp	Asp	Pro	Phe	Ser	Gly	Lys	Thr	Val	Ser	Val.	Ser	G] 11	2/3 775	71.
			980					985					000		
Lys	Lys	Asn	Leu	Ile	Asp	Arg	Glu	Thr	Gly	Met	Ara	Leu	T.e.11	Glu	ת ה
		フフコ					1000)				7005	:		
Gln	Ile	Ala	Ser	Gly	Gly	Val	Val	Asp	Pro	Val	Asn	Ser	Val	Phe	Lou
	TOT	,				1015	5				1020	١			
 Pro	Lys	Asp	Val	Ala	Leu	Ala	Arg	Gly	Leu	Ile	Ãsp	Arq	Asp	Len	Tur
102	,				T030	;				1035	:				
Arg	Ser	Leu	Asn	Asp	Pro	Arg	Asp	Ser	Gln	Lys	Asn	Phe	Val	Asp	Pro
				1045)				1050	١					
vai	Thr	Lys	Lys	Lys	Val	Ser	Tyr	Val	Gln	Leu	Lys	Glu	Arg	Cys	Arq
			TOOL	,				1065	5				1070	`	
тте	GIU	Pro	Hls	Thr	Gly	Leu	Leu	Leu	Leu	Ser	Val	Gln	Lvs.	Ara	Ser
		1075												5	~~
		TO / 5)		-		1080)				1005			
	Ser	Phe	Gln		Ile	Arg	1080 Gln)				1005			
Met	Ser 1090	Phe	Gln	Gly	Ile	Arg 1095	1080 Gln) Pro	Val	Thr	Val	1085 Thr	Glu:	Leu	Val
Met Asp	Ser 1090 Ser	Phe	Gln	Gly	Ile Arg	Arg 1095 Pro	1080 Gln) Pro	Val Val	Thr Asn	Val 1100 Glu	1085 Thr	Glu:	Leu	Val
Met Asp 1105	Ser 1090 Ser	Phe Gly	Gln Ile	Gly Leu	Ile Arg 1110	Arg 1095 Pro	1080 Gln Ser	Pro Thr	Val Val	Thr Asn	Val 1100 Glu	1085 Thr Leu	Glu Glu Glu	Leu Ser	Val Gly
Met Asp 1105	Ser 1090 Ser	Phe Gly	Gln Ile	Gly Leu Asp	Ile Arg 1110 Glu	Arg 1095 Pro	1080 Gln Ser	Pro Thr	Val Val Arg	Thr Asn 1115 Ile	Val 1100 Glu	1085 Thr Leu	Glu Glu Glu	Leu Ser	Val Gly
Met Asp 1105 Gln	Ser 1090 Ser Ile	Phe Gly Ser	Gln Ile Tyr	Gly Leu Asp 1125	Ile Arg 1110 Glu	Arg 1095 Pro Val	Gln Ser	Pro Thr	Val Val Arg	Thr Asn 1115 Ile	Val 1100 Glu Lys	1085 Thr Leu Asp	Glu Glu Phe	Leu Ser Leu	Val Gly 112 Gln
Met Asp 1105 Gln	Ser 1090 Ser Ile Ser	Phe Gly Ser	Gln Ile Tyr Cys	Gly Leu Asp 1125 Ile	Ile Arg 1110 Glu	Arg 1095 Pro Val	Gln Ser Gly	Pro Thr Glu Tyr	Val Val Arg 1130 Asn	Thr Asn 1115 Ile	Val 1100 Glu Lys	1085 Thr Leu Asp	Glu Glu Phe	Leu Ser Leu	Val Gly 112 Gln
Met Asp 1105 Gln Gly	Ser 1090 Ser Ile Ser	Phe Gly Ser	Gln Ile Tyr Cys 1140	Gly Leu Asp 1125 Ile	Ile Arg 1110 Glu Ala	Arg 1095 Pro Val Gly	Gln Ser Gly	Pro Thr Glu Tyr 1145	Val Val Arg 1130 Asn	Thr Asn 1115 Ile Glu	Val 1100 Glu Lys Thr	1085 Thr Leu Asp	Glu Glu Phe Lys	Leu Ser Leu 1135 Gln	Val Gly 112 Gln Lys
Met Asp 1105 Gln Gly	Ser 1090 Ser Ile Ser	Phe Gly Ser Ser	Gln Ile Tyr Cys 1140 Tyr	Gly Leu Asp 1125 Ile	Ile Arg 1110 Glu	Arg 1095 Pro Val Gly Met	Gln Ser Gly Ile	Pro Thr Glu Tyr 1145	Val Val Arg 1130 Asn	Thr Asn 1115 Ile Glu	Val 1100 Glu Lys Thr	1085 Thr Leu Asp Thr	Glu Glu Phe Lys 1150 Pro	Leu Ser Leu 1135 Gln	Val Gly 112 Gln Lys
Met Asp 1105 Gln Gly Leu	Ser 1090 Ser Ile Ser Gly	Phe Gly Ser Ser Ile	Gln Ile Tyr Cys 1140 Tyr	Gly Leu Asp 1125 Ile Glu	Ile Arg 1110 Glu Ala Ala	Arg 1095 Pro Val Gly Met	Gln Ser Gly Ile Lys	Pro Thr Glu Tyr 1145 Ile	Val Val Arg 1130 Asn Gly	Thr Asn 1115 Ile Glu Leu	Val 1100 Glu Lys Thr	1085 Thr Leu Asp Thr Arg	Glu Glu Phe Lys 1150 Pro	Leu Ser Leu 1135 Gln	Val Gly 112 Gln Lys
Met Asp 1105 Gln Gly Leu	Ser 1090 Ser Ile Ser Gly Leu	Phe Gly Ser Ser Ile 1155	Gln Ile Tyr Cys 1140 Tyr	Gly Leu Asp 1125 Ile Glu	Ile Arg 1110 Glu Ala Ala Glu	Arg 1095 Pro Val Gly Met	Gln Ser Gly Ile Lys 1160 Gln	Pro Thr Glu Tyr 1145 Ile	Val Val Arg 1130 Asn Gly	Thr Asn 1115 Ile Glu Leu Thr	Val 1100 Glu Lys Thr Val	1085 Thr Leu Asp Thr Arg 1165 Phe	Glu Glu Phe Lys 1150 Pro	Leu Ser Leu 1135 Gln	Val Gly 112 Gln Lys
Met Asp 1105 Gln Gly Leu Ala	Ser 1090 Ser Ile Ser Gly Leu 1170	Phe Gly Ser Ser Ile 1155	Gln Ile Tyr Cys 1140 Tyr	Gly Leu Asp 1125 Ile Glu Leu	Ile Arg 1110 Glu Ala Ala Glu	Arg 1095 Pro Val Gly Met Ala 1175	Gln Ser Gly Ile Lys 1160 Gln	Pro Thr Glu Tyr 1145 Ile	Val Val Arg 1130 Asn Gly Ala	Thr Asn 1115 Ile Glu Leu Thr	Val 1100 Glu Lys Thr Val	1085 Thr Leu Asp Thr Arg 1165 Phe	Glu Glu Phe Lys 1150 Pro	Leu Ser Leu 1135 Gln Gly Val	Val Gly 112 Gln Lys Thr
Met Asp 1105 Gln Gly Leu Ala	Ser 1090 Ser Ile Ser Gly Leu 1170 Val	Phe Gly Ser Ser Ile 1155	Gln Ile Tyr Cys 1140 Tyr	Gly Leu Asp 1125 Ile Glu Leu Leu	Ile Arg 1110 Glu Ala Ala Glu Arg	Arg 1095 Pro Val Gly Met Ala 1175 Leu	Gln Ser Gly Ile Lys 1160 Gln	Pro Thr Glu Tyr 1145 Ile	Val Val Arg 1130 Asn Gly Ala Glu	Thr Asn 1115 Ile Glu Leu Thr	Val 1100 Glu Lys Thr Val	1085 Thr Leu Asp Thr Arg 1165 Phe	Glu Glu Phe Lys 1150 Pro	Leu Ser Leu 1135 Gln Gly Val	Val Gly 112 Gln Lys Thr
Met Asp 1105 Gln Gly Leu Ala Pro 1185	Ser 1090 Ser Ile Ser Gly Leu 1170 Val	Phe Gly Ser Ser Ile 1155 Glu	Gln Ile Tyr Cys 1140 Tyr Leu Asn	Cly Leu Asp 1125 Ile Glu Leu Leu	Ile Arg 1110 Glu Ala Ala Glu Arg 1190	Arg 1095 Pro Val Gly Met Ala 1175 Leu	Gln Ser Gly Ile Lys 1160 Gln Pro	Pro Thr Glu Tyr 1145 Ile Ala	Val Val Arg 1130 Asn Gly Ala	Thr Asn 1115 Ile Glu Leu Thr	Val 1100 Glu Lys Thr Val Gly 1180 Ala	1085 Thr Leu Asp Thr Arg 1165 Phe	Glu Glu Phe Lys 1150 Pro Ile Lys	Leu Ser Leu 1135 Gln Gly Val	Val Gly 112 Gln Lys Thr Asp
Met Asp 1105 Gln Gly Leu Ala Pro 1185	Ser 1090 Ser Ile Ser Gly Leu 1170 Val	Phe Gly Ser Ser Ile 1155 Glu	Gln Ile Tyr Cys 1140 Tyr Leu Asn	Gly Leu Asp 1125 Ile Glu Leu Leu Glu	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe	Arg 1095 Pro Val Gly Met Ala 1175 Leu	Gln Ser Gly Ile Lys 1160 Gln Pro	Pro Thr Glu Tyr 1145 Ile Ala Val	Val Val Arg 1130 Asn Gly Ala Glu Leu	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu	Val 1100 Glu Lys Thr Val Gly 1180 Ala	1085 Thr Leu Asp Thr Arg 1165 Phe	Glu Glu Phe Lys 1150 Pro Ile Lys	Leu Ser Leu 1135 Gln Gly Val Arg	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala
Met Asp 1105 Gln Gly Leu Ala Pro 1185 Leu	Ser 1090 Ser Ile Ser Gly Leu 1170 Val	Phe Gly Ser Ser Ile 1155 Glu Ser	Gln Ile Tyr Cys 1140 Tyr Leu Asn	Cly Leu Asp 1125 Ile Glu Leu Leu Glu 1205	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe	Arg 1095 Pro Val Gly Met Ala 1175 Leu	Gln Ser Gly Ile Lys 1160 Gln Pro	Pro Thr Glu Tyr 1145 Ile Ala Val	Val Val Arg 1130 Asn Gly Ala Glu Leu	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala	Glu Glu Phe Lys 1150 Pro Ile Lys	Leu Ser Leu 1135 Gln Gly Val Arg	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala
Met Asp 1105 Gln Gly Leu Ala Pro 1185 Leu	Ser 1090 Ser Ile Ser Gly Leu 1170 Val	Phe Gly Ser Ser Ile 1155 Glu Ser	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile	Cly Leu Asp 1125 Ile Glu Leu Glu 1205 Asn	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe	Arg 1095 Pro Val Gly Met Ala 1175 Leu	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu	Pro Thr Glu Tyr 1145 Ile Ala Val Lys	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser	Leu Ser Leu 1135 Gln Gly Val Arg Arg 1215 Leu	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala
Asp 1105 Gln Gly Leu Ala Pro 1185 Leu	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Val	Phe Gly Ser Ser Ile 1155 Glu Ser Gly	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr	Cly Leu Asp 1125 Ile Glu Leu Glu 1205 Asn	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu	Pro Thr Glu Tyr 1145 Ile Ala Val Lys	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser	Leu Ser Leu 1135 Gln Gly Val Arg 1215 Leu	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala
Asp 1105 Gln Gly Leu Ala Pro 1185 Leu	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Val Thr	Phe Gly Ser Ile 1155 Glu Ser Gly Gly Met	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr 1220 Asn	Cly Leu Asp 1125 Ile Glu Leu Glu 1205 Asn	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys Pro	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu Ile	Pro Thr Glu Tyr 1145 Ile Ala Val Lys	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser Ile	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile Gly	Glu Glu Phe Lys 11c Lys Glu Ser 1230 Ile	Leu Ser Leu 1135 Gln Gly Val Arg 1215 Leu	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala
Met Asp 1105 Gln Gly Leu Ala Pro 1185 Leu Val Gln	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Val Thr	Phe Gly Ser Ser Ile 1155 Glu Ser Gly Gly Met 1235	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr 1220 Asn	Cly Leu Asp 1125 Ile Glu Leu Leu Glu 1205 Asn Lys	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe Asp	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu Ile 1240	Pro Thr Glu Tyr 1145 Ile Ala Val Lys Thr 1225 Glu	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn Gly	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser Ile	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile Gly	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser 1230 Ile	Leu Ser Leu 1135 Gln Gly Val Arg Arg 1215 Leu Arg	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala Phe
Asp 1105 Gln Gly Leu Ala Pro 1185 Leu Val Gln	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Val Thr Ala Glu	Phe Gly Ser Ile 1155 Glu Ser Gly Gly Met 1235 Ala	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr 1220 Asn	Cly Leu Asp 1125 Ile Glu Leu Leu Glu 1205 Asn Lys	Arg 1110 Glu Ala Ala Glu Arg 1190 Phe Asp Glu Ala	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys Pro	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu Ile 1240	Pro Thr Glu Tyr 1145 Ile Ala Val Lys Thr 1225 Glu	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn Gly Ile	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser Ile His	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile Gly	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser 1230 Ile	Leu Ser Leu 1135 Gln Gly Val Arg Arg 1215 Leu Arg	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala Phe
Met Asp 1105 Gln Gly Leu Ala Pro 1185 Leu Val Gln Leu	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Thr Ala Glu 1250	Phe Gly Ser Ile 1155 Glu Ser Gly Met 1235 Ala	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr 1220 Asn Gln	Cly Leu Asp 1125 Ile Glu Leu Glu 1205 Asn Lys Ile	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe Asp Glu Ala	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys Pro Leu Thr 1255	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu Ile 1240 Gly	Pro Thr Glu Tyr 1145 Ile Ala Val Lys Thr 1225 Glu Gly	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly Lys	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn Gly Ile	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser Ile	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile Gly 1245 Pro	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser 1230 Ile Lys	Leu Ser Leu 1135 Gln Gly Val Arg 1215 Leu Arg	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala Phe Leu Ser
Met Asp 1105 Gln Gly Leu Ala Pro 1185 Leu Val Gln Leu	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Thr Ala Glu 1250 Arg	Phe Gly Ser Ile 1155 Glu Ser Gly Met 1235 Ala	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr 1220 Asn Gln	Cly Leu Asp 1125 Ile Glu Leu Glu 1205 Asn Lys Ile Val	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe Asp Glu Ala	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys Pro Leu Thr 1255 Ile	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu Ile 1240 Gly Ala	Pro Thr Glu Tyr 1145 Ile Ala Val Lys Thr 1225 Glu Gly	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly Lys Ile	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn Gly Ile	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser Ile His Asp 1260 Gly	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile Gly 1245 Pro	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser 1230 Ile Lys	Leu Ser Leu 1135 Gln Gly Val Arg 1215 Leu Arg	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala Phe Leu Ser
Met Asp 1105 Gln Gly Leu Ala Pro 1185 Leu Val Gln Leu His 1265	Ser 1090 Ser Ile Ser Gly Leu 1170 Val Thr Ala Glu 1250 Arg	Phe Gly Ser Ile 1155 Glu Ser Gly Met 1235 Ala Leu	Gln Ile Tyr Cys 1140 Tyr Leu Asn Ile Tyr 1220 Asn Gln Pro	Cly Leu Asp 1125 Ile Glu Leu Leu Glu 1205 Asn Lys Ile Val	Ile Arg 1110 Glu Ala Ala Glu Arg 1190 Phe Asp Glu Ala	Arg 1095 Pro Val Gly Met Ala 1175 Leu Lys Pro Leu Thr 1255 Ile	Gln Ser Gly Ile Lys 1160 Gln Pro Glu Glu Ile 1240 Gly Ala	Pro Thr Glu Tyr 1145 Ile Ala Val Lys Thr 1225 Glu Gly Tyr	Val Val Arg 1130 Asn Gly Ala Glu Leu 1210 Gly Lys Ile	Thr Asn 1115 Ile Glu Leu Thr Glu 1195 Leu Asn Gly Ile	Val 1100 Glu Lys Thr Val Gly 1180 Ala Ser Ile His Asp 1260 Gly	1085 Thr Leu Asp Thr Arg 1165 Phe Tyr Ala Ile Gly 1245 Pro	Glu Glu Phe Lys 1150 Pro Ile Lys Glu Ser 1230 Ile Lys	Leu Ser Leu 1135 Gln Gly Val Arg 1215 Leu Arg Glu Asn	Val Gly 112 Gln Lys Thr Asp Gly 120 Ala Phe Leu Ser

an esta de la companya de la company

₩ 77/07#03

				1285					1290					1295	
Phe	Asp	Pro	Asn 1300		Glu	Glu	Asn	Leu 1305		Tyr	Leu	Gln	Leu 1310	_	Glu
Arg	Cys	Ile 1315	Lys	Asp	Glu	Glu	Thr 1320		Leu	Cys	Leu	Leu 1325	Pro		Lys
Glu		Lys	Lys		Val		Thr	Ser		Lys		Thr		Arg	Lys
Δνα	1330		Val	Tle	Val	1335		Glu		Nan	1340		Mot	تمدة	77_7
1345		Val	Val	116	1350		FIO	Giu	1111	1355		GIU	Mec	ser	va1 136
Gln	Glu	Ala	Tyr	Lys 1365		Gly	Leu	Ile	Asp 1370		Glu	Thr	Phe	Lys	Glu
Leu	Cys	Glu	Gln			Glu	Trp	Glu			Thr	Ile	Thr		
			1380)				1385	5				1390)	
Asp	Gly	Ser	Thr	Arg	Val	Val	Leu	Val	Asp	Arg	Lys	Thr	Gly	Ser	Gln
	_		5												
	1410)	Gln			1415	;				1420)		-	
		Gln	Tyr	Arg			Ser	Leu	Ser			Gln	Phe	Ala	_
1425		Sar	Leu	Tarc	1430		va 1	<i>α</i> 1	Tilo so	1435		C	M	a 1	144
				1445	5				1450)				1455	5
Gly	Val	Ser	Asp	Asp	Val	Phe	Ser	Ser	Ser	Arg	His	Glu	Ser	Val	Ser
*			1460												
ьўѕ	TTE	Ser 1479	Thr	TTE	ser	ser	vai 1480		Asn	Leu	Thr		_	Ser	Ser
Ser	Dhe		Asp	Thr	T.@11	Glu			Car	Dro	Tla	1485		T7 -	73. a
DCI	1490		Asp	1111	пец	1495			per		1500		ALA	тте	Pne
Asp			Asn	Leu	Glu								Tla	Gl v	7 ~~~
1509)						GLY	110	GIU	152
		Val	Asp	Ser								Glu	Ala	Gln	
•			, 4 ,									0_0		1535	
Cys	Thr	Gly	Gly								Gln	Lvs	Leu		
=		_	1540)		: :		1549	5 , 44%,	4) .	
Gln	Asp	Ala	Val												
		155	5				1560)				1565	5		
Val	Lys 1570		Ala	Gln	Lys	Ala 1575		Ile	Gly	Phe	Glu 1580		Val	Lys	Gly
Lys	Lys	Lys	Met	Ser	Ala	Ala	Glu	Ala	Val	Lys	Glu	Lys	Trp	Leu	Pro
1589					1590					1599					160
			Gly	160	5				161	0				161	5
Leu	Val	Asp	Pro 1620		Val	His		Arg 162		Ser	Thr	Glu	Glu 163		Ile
Arg	Lys	Gly 163	Phe 5	Ile	Asp	Gly	Arg 1640		Ala	Gln	Arg	Leu 164	Gln		Thr
Ser	Ser	Tyr	Ala	Lys	Ile	Leu	Thr	Cys	Pro	Lys	Thr			Lvs	Ile
	165			-		1655	5	•		•	166			-7-	
Ser	Tyr	Lys	Asp	Ala	Ile	Asn	Arg	Ser	Met	Val	Glu	Asp	Ile	Thr	Gly
166	5				167	0				167	5				168
Leu	Arg	Leu	Leu	Glu	Ala	Ala	Ser	Val	Ser	Ser	Lys	Gly	Leu	Pro	Ser
				168	5				169	0				169	5
			Met 170	0				170	5				171	0	•
Gly	Ser	Arg	Ser	Gly	Ser		Ser		Ser	Arg	Ser	Gly		Arg	Arg

TO 27/07/00 I CAN COSTON AND TO THE STATE OF
Gly Ser Phe Asp Ala Thr Gly Asn Ser Ser Tyr Ser Tyr Ser Tyr Ser Tyr Ser 1730 1735 1740

Phe Ser Ser Ser Ser Ile Gly His 1745 1750

<210> 73 <211> 1978 <212> PRT <213> Homo Sapiens

		< 4	100>	73												
	Met 1	Ser	Arg	Pro	Arg 5	Phe	Asn	Pro	Arg	Gly 10	Asp	Phe	Pro	Leu	Gln 15	Arg
	Pro	Arg	Ala	Pro	Asn	Pro	Ser	Gly	Met	Arg	Pro	Pro	Gly	Pro	Phe	Met
				2.0					25					30		
			35					40					Ala 45		_	
	Arg	Gly 50	Ile	Pro	His	Arg	Phe 55	Ala	Gly	Leu	Glu	Ser 60	Tyr	Gln	Asn	Met
	Gly 65	Pro	Gln	Arg	Met	Asn 70	Val	Gln	Val	Thr	Gln 75	His	Arg	Thr	qaA	Pro 80
	Arg	Leu	Thr	Lys	Glu	Lys	Leu	Asp	Phe	His	Glu	Ala	Gln	Gln	Lvs	Lvs
••		•			85					90					95	
				100	•				105	•			His	110		
	Ser	Val	Ala 115	Val	Lys	Gln	Ser	Ser 120	Val	Thr	Gln	Val	Thr	Glu	Gln	Ser
	Pro	Lvs		Gln	Ser	Δ×α	Тчт		Taza	C1	C	×1 -	125 Ser	~ -		_
		130			·	ALG:	135	. 1 111	шуь	.GIU	ser	140	ser	ser	TIE	Leu
	Ala												T.611	G07	7~~	Tyr
	145			-		15.0					155		eu		Arg	160
	Pro	Asp	Glu	Gln	Leu	Thr	Pro	Glu	Asn.	Met		Leu	Ile	T _i en	Δνα	760
		_			165		. :	h ay s		170					175	тэр
	Ile	Arg	Met								Pro		Leu	Pro	Ser	Gln
				180			· · · .		185				•	190		
	Ser	Arg	Asn	Lys	Glu	Thr	Leu	Gly	Ser	Glu	Ala	Val	Ser	Ser	Asn	Val
	- 5:	_	195		•			200					205			
	тте	Asp	Tyr	Gly	His	Ala		Lys	Tyr	Gly	Tyr		Glu	Asp	Pro	Leu
	61. ,	210	7	77.	Ma	3	215	~ 1		_		220				
	225	vai	Arg	TIE	TÄT	230	PIO	GIU	TTE	Pro		Asp	Glu	Val	Glu	
		Phe	Gln	Ser	GIn		Δen	Tlo	Sar	ת ה מ	235	1707	Pro	7	D	240
			0		245	GIII	ASII	116	261	250	ser	val	Pro	ASN		Asn
	Val	Ile	Cys	Asn		Met	Phe	Pro	Va1		Δen	Va l	Phe	λνα	255	Mob
			•	260					265			Val	FIIC	270	GIII	Met
	Asp	Phe	Pro	Gly	Glu	Ser	Ser	Asn				Phe	Phe	Ser	Val	Glu
			2,75					280					285			
	Ser	Gly	Thr	Lys	Met	Ser	Gly	Leu	His	Ile	Ser	Gly	Gly	Gln	Ser	Val
		290					295					300				
	Lėu	Glu	Pro	Ile	Lys	Ser	Val	Asn	Gln	Ser	Ile	Asn	Gln	Thr	Val	Ser
	305					310					315					320
	Gln	Thr	Met	Ser	Gln	Ser	Leu	Ile	Pro	Pro	Ser	Met	Asn	Gln	Gln	Pro
					325					330					335	
	Phe	Ser	Ser	Glu 340	Leu	Ile	Ser	Ser	Val 345	Ser	Gln	Gln	Glu	Arg 350	Ile	Pro

His Glu Pro Val Ile Asn Ser Ser Asn Val His Val Gly Ser Arg Gly Ser Lys Lys Asn Tyr Gln Ser Gln Ala Asp Ile Pro Ile Arg Ser Pro 375 Phe Gly Ile Val Lys Ala Ser Trp Leu Pro Lys Phe Ser His Ala Asp 390 395 Ala Gln Lys Met Lys Arg Leu Pro Thr Pro Ser Met Met Asn Asp Tyr 405 410 Tyr Ala Ala Ser Pro Arg Ile Phe Pro His Leu Cys Ser Leu Cys Asn 425 Val Glu Cys Ser His Leu Lys Asp Trp Ile Gln His Gln Asn Thr Ser 440 Thr His Ile Glu Ser Cys Arg Gln Leu Arg Gln Gln Tyr Pro Asp Trp 455 Asn Pro Glu Ile Leu Pro Ser Arg Arg Asn Glu Gly Asn Arg Lys Glu 470 475 Asn Glu Thr Pro Arg Arg Ser His Ser Pro Ser Pro Arg Arg Ser 485 490 Arg Arg Ser Ser Ser His Arg Phe Arg Arg Ser Arg Ser Pro Met 500 505 His Tyr Met Tyr Arg Pro Arg Ser Arg Ser Pro Arg Ile Cys His Arg Phe Ile Ser Arg Tyr Arg Ser Arg Ser Arg Ser Arg Ser Pro Tyr Arg 535 Ile Arg Asn Pro Phe Arg Gly Ser Pro Lys Cys Phe Arg Ser Val Ser 550 555 Pro Glu Arg Met Ser Arg Arg Ser Val Arg Ser Ser Asp Arg Lys 565 570 Ala Leu Glu Asp Val Val Gln Arg Ser Gly His Gly Thr Glu Phe Asn -580 585 Lys Gln Lys His Leu Glu Ala Ala Asp Lys Gly His Ser Pro Ala Gln 600 605 Lys Pro Lys Thr Ser Ser Gly Thr Lys Pro Ser Val Lys Pro Thr Ser 615 . Ala Thr Lys Ser Asp Ser Asn Leu Gly Gly His Ser Ile Arg Cys Lys 630 635 Ser Lys Asn Leu Glu Asp Asp Thr Leu Ser Glu Cys Lys Gln Val Ser 645 650 Asp Lys Ala Val Ser Leu Gln Arg Lys Leu Arg Lys Glu Gln Ser Leu 660 665 His Tyr Gly Ser Val Leu Leu Ile Thr Glu Leu Pro Glu Asp Gly Cys 680 Thr Glu Glu Asp Val Arg Lys Leu Phe Gln Pro Phe Gly Lys Val Asn 695 Asp Val Leu Ile Val Pro Tyr Arg Lys Glu Ala Tyr Leu Glu Met Glu 710 715 Phe Lys Glu Ala Ile Thr Ala Ile Met Lys Tyr Ile Glu Thr Thr Pro 725 730 Leu Thr Ile Lys Gly Lys Ser Val Lys Ile Cys Val Pro Gly Lys Lys 745 Lys Ala Gln Asn Lys Glu Val Lys Lys Thr Leu Glu Ser Lys Lys 760 Val Ser Ala Ser Thr Leu Lys Arg Asp Ala Asp Ala Ser Lys Ala Val Glu Ile Val Thr Ser Thr Ser Ala Ala Lys Thr Gly Gln Ala Lys Ala

ママ・ント ノノメぴずぬぴぷ

```
790
                                   795
Cys Val Ala Lys Val Asn Lys Ser Thr Gly Lys Ser Ala Ser Ser Val
              805
                                810
Lys Ser Val Val Thr Val Ala Val Lys Gly Asn Lys Ala Ser Ile Lys
                            825
Thr Ala Lys Ser Gly Gly Lys Lys Ser Leu Glu Ala Lys Lys Thr Gly
                         840
Asn Val Lys Asn Lys Asp Ser Asn Lys Pro Val Thr Ile Pro Glu Asn
                     855
Ser Glu Ile Lys Thr Ser Ile Glu Val Lys Ala Thr Glu Asn Cys Ala
                 870
                                   875
Lys Glu Ala Ile Ser Asp Ala Ala Leu Glu Ala Thr Glu Asn Glu Pro
              885
                                890
Leu Asn Lys Glu Thr Glu Glu Met Cys Val Met Leu Val Ser Asn Leu
 900 905 910
Pro Asn Lys Gly Tyr Ser Val Glu Glu Val Tyr Asp Leu Ala Lys Pro
       915
                         920
Phe Gly Gly Leu Lys Asp Ile Leu Ile Leu Ser Ser His Lys Lys Ala
           . 935
                                     940
Tyr Ile Glu Ile Asn Arg Lys Ala Ala Glu Ser Met Val Lys Phe Tyr
                 950
                                   955
Thr Cys Phe Pro Val Leu Met Asp Gly Asn Gln Leu Ser Ile Ser Met
 975 ----
Ala Pro Glu Asn Met Asn Ile Lys Asp Glu Glu Ala Ile Phe Ile Thr
          980
                            985
Leu Val Lys Glu Asn Asp Pro Glu Ala Asn Ile Asp Thr Ile Tyr Asp
                         1000
Arg Phe Val His Leu Asp Asn Leu Pro Glu Asp Gly Leu Gln Cys Val
                     1015
1010
                                       1020
Leu Cys Val Gly Leu Gln Phe Gly Lys Val Asp His His Val Phe Ile
1025 : A ... 1030 ... i
                                   1035
                                                     104
                                                         1. S. J. M. S. A. S.
Ser Asn Arg Asn Lys Ala Ile Leu Gln Leu Asp Ser Pro Glu Ser Ala
1050
                                                 1055
Gln Ser Met Tyr Ser Phe Leu Lys Gln Asn Pro Gln Asn Ile Gly Asp
1060
                 . .
                            1065
                                             1070
His Met Leu Thr Cys Ser Leu Ser Pro Lys Ile Asp Leu Pro Glu Val
                        1080
                                         1085
Gln Ile Glu His Asp Pro Glu Leu Glu Lys Glu Ser Pro Gly Leu Lys
          1095
                                       1100
Asn Ser Pro Ile Asp Glu Ser Glu Val Gln Thr Ala Thr Asp Ser Pro
                  1110
                                    1115
Ser Val Lys Pro Asn Glu Leu Glu Glu Glu Ser Thr Pro Ser Ile Gln
              1125
                                1130
Thr Glu Thr Leu Val Gln Gln Glu Glu Pro Cys Glu Glu Glu Ala Glu
          1140
                            1145
Lys Ala Thr Cys Asp Ser Asp Phe Ala Val Glu Thr Leu Glu Leu Glu
                         1160
Thr Gln Gly Glu Glu Val Lys Glu Glu Ile Pro Leu Val Ala Ser Ala
                     1175
Ser Val Ser Ile Glu Gln Phe Thr Glu Asn Ala Glu Glu Cys Ala Leu
                  1190
                                    1195
Asn Gln Gln Met Phe Asn Ser Asp Leu Glu Lys Lys Gly Ala Glu Ile
              1205
                                1210
Ile Asn Pro Lys Thr Ala Leu Leu Pro Ser Asp Ser Val Phe Ala Glu
           1220
                             1225
```

C11U370/17U/7 W U ソン/U44U3

Glu .	Arg			Lys	Gly		Leu 1240		Glu :	Ser		Ser 1245		Ala	Glu		
		1235															
Asp	Phe 1250		Ser	GIÀ		Tnr 1255		rnr	Met		G1u 1260		Val	Ala	GIu		
Val			Asn				Ser	Glu				Ser	Thr	Cys			
1265					1270					1275					128		
Val	Thr	Leu	Val	Pro	Gly	Ile	Pro	Thr	Gly 1290					Val 1295	-		
Lys	T	7.00															
_			1300					1305					1310)			:
Lys	Glu	Phe 1315		Thr	Lys		Thr 1320		Met	Asp		Gln 1325		Gly	Thr		
Glu	-		Glu	Lys			Gly	Arg	Met	-			Lys	Val	Glu		
	1330					1335					1340						
Lys 1345		Ala	Ala		Lys 1350		Lys			Glu 1355		Thr	Leu	Phe	Lys 136		
		Pro	Δen				Gly	Gln				Pro	Asn	Glu			
	_			1365	;				1370					1375	5		
Ser	Lys	Thr	Ser	Ile	Leu	Ala	Val	Ser	Asp	Val	Ser	Ser	Ser	Lys	Pro		
			1380)				1385					1390)			
Ser	Ile	Lys 1395		Val	Ile		Ser 1400		Pro	Lys	Ala	Lys 1409		Thr	Val		
Ser	Tage			-2 cn-	Glm-		Ser		Pro	Tave	Ser	Val	Pro	- Σ -γ-α-	Zan -		
DCI	1410			71.511	· · · ·	1415				_,,,	1420			9	ASP		
C1 2			ת T ת	C111	Tarc					Tira			C1.,	T 011	T 011		
		ASII	Ата	GIU	_	-	Leu	ser		-		FILE	GTA	ьеu			
1425					1430			_		1435		_	_		144		•
Lys	Pro	Thr	Ser	A1a 144	-	ser	Gly	Leu	A1a 1450		Ser	Ser	Ser	Lys 145!			
Lys	Pro	Thr	Gln	Ser	Ser	Leu	Thr	Arg	Gly	Gly	Ser	Gly	Arg	Ile	Ser		
:	٠,		1460)				1465	5		٠	•	1470				:
		Gln	Gly	Lys	Leù	Ser	Lys	Leu	Asp	Tyr	Arg	Asp	Ile	Thr	Lys		. •
								`									
· . ·	· :1 ·	147	5				1480	,				1485	5				
				Thr	Glu	Ala					Met			Asp	Asp		1 4 1
		Gln		Thr	Glu	Ala 149	Arg				Met 1500	Lys		Asp	Asp		1 4 5
Gln	Ser 149	Gln O	Glu			149	Arg	Pro	Ser	Ile	1500	Lys)	Arg	_	_		1 4 7
Gln Ser	Ser 149 Asn	Gln O	Glu			149 Ala	Arg 5	Pro	Ser	Ile	1500 Lys	Lys)	Arg	_	_		1 - 18 - TA
Gln Ser 150	Ser 149 Asn 5	Gln 0 Asn	Glu Lys	Thr	Leu 151	149 Ala 0	Arg 5 Glu	Pro Gln	Ser Asn	Ile Thr 151	1500 Lys 5	Lys) Asn	Arg Pro	Lys	Ser 152		1 4 5
Gln Ser 150	Ser 149 Asn 5	Gln 0 Asn	Glu Lys	Thr	Leu 151 Ser	149 Ala 0	Arg 5	Pro Gln	Ser Asn Glu	Thr 1519 Glu	1500 Lys 5	Lys) Asn	Arg Pro	Lys Pro	Ser 152 Phe		
Ser 150 Thr	Ser 149 Asn 5 Thr	Gln 0 Asn Gly	Glu Lys Arg	Thr Ser 152	Leu 151 Ser 5	149 Ala O Lys	Arg 5 Glu Ser	Pro Gln Lys	Ser Asn Glu 1530	Thr 1519 Glu	1500 Lys 5 Pro	Lys) Asn Leu	Arg Pro	Lys Pro 153	Ser 152 Phe	٠	1.4.5
Ser 150 Thr	Ser 149 Asn 5 Thr	Gln 0 Asn Gly	Glu Lys Arg Glu	Thr Ser 152 Phe	Leu 151 Ser 5	149 Ala O Lys	Arg 5 Glu Ser	Pro Gln Lys Asp	Ser Asn Glu 1530 Glu	Thr 1519 Glu	1500 Lys 5 Pro	Lys) Asn Leu	Arg Pro Phe Glu	Lys Pro 153 Val	Ser 152 Phe		
Ser 1500 Thr	Ser 149 Asn 5 Thr	Gln 0 Asn Gly Asp	Lys Arg Glu 154	Thr Ser 152 Phe	Leu 1510 Ser 5 Val	149 Ala 0 Lys Thr	Arg 5 Glu Ser Val	Pro Gln Lys Asp 154	Ser Asn Glu 1530 Glu	Thr 151! Glu) Val	1500 Lys Fro Ile	Lys) Asn Leu Glu	Arg Pro Phe Glu 155	Lys Pro 153 Val	Ser 152 Phe 5 Asn		1 4 5
Ser 1500 Thr	Ser 149 Asn 5 Thr	Gln 0 Asn Gly Asp	Glu Lys Arg Glu 154 Ala	Thr Ser 152 Phe	Leu 1510 Ser 5 Val	149 Ala 0 Lys Thr	Arg 5 Glu Ser Val	Pro Gln Lys Asp 1549 Leu	Ser Asn Glu 1530 Glu	Thr 151! Glu) Val	1500 Lys Fro Ile	Lys) Asn Leu Glu	Pro Phe Glu 155 Lys	Lys Pro 153 Val	Ser 152 Phe		
Ser 150 Thr Asn	Ser 149 Asn 5 Thr Leu Ser	Gln O Asn Gly Asp Gln 155 Asn	Glu Lys Arg Glu 154 Ala 5	Thr Ser 152 Phe O Lys	Leu 1510 Ser 5 Val Gln	149 Ala 0 Lys Thr Asn	Arg 5 Glu Ser Val Pro 156 Glu	Pro Gln Lys Asp 154! Leu	Asn Glu 1530 Glu 5 Lys Asn	Thr 151! Glu Val	1500 Lys Pro Ile Lys	Lys Asn Leu Glu Arg 156 Lys	Pro Phe Glu 155 Lys 5	Lys Pro 153 Val 0 Glu	Ser 152 Phe 5 Asn		
Ser 150 Thr Asn Pro	Ser 149 Asn Thr Leu Ser Lys 157	Gln O Asn Gly Asp Gln 155 Asn	Lys Arg Glu 154 Ala 5 Val	Thr Ser 152 Phe U Lys	Leu 1516 Ser 5 Val Gln Phe	149 Ala O Lys Thr Asn Ser 157	Arg 5 Glu Ser Val Pro 156 Glu 5	Pro Gln Lys Asp 154! Leu Leu	Asn Glu 1530 Glu 5 Lys Asn	Thr 1519 Glu Val Gly Leu	1500 Lys Fro Ile Lys Lys 158	Lys Asn Leu Glu Arg 156 Lys	Pro Phe Glu 155 Lys Lys	Lys Pro 153 Val 0 Glu Lys	Ser 152 Phe 5 Asn Thr		
Ser 1500 Thr Asn Pro Leu	Ser 149 Asn 5 Thr Leu Ser Lys 157	Gln O Asn Gly Asp Gln 155 Asn	Lys Arg Glu 154 Ala 5 Val	Thr Ser 152 Phe U Lys	Leu 1516 Ser 5 Val Gln Phe	149 Ala O Lys Thr Asn Ser 157 Gly	Arg 5 Glu Ser Val Pro 156 Glu 5	Pro Gln Lys Asp 154! Leu Leu	Asn Glu 1530 Glu 5 Lys Asn	Thr 1519 Glu Val Gly Leu	1500 Lys Pro Ile Lys Lys 158 Leu	Lys Asn Leu Glu Arg 156 Lys	Pro Phe Glu 155 Lys Lys	Lys Pro 153 Val 0 Glu Lys	Ser 152 Phe 5 Asn Thr Gly		
Ser 1500 Thr Asn Pro Leu Lys 158	Ser 149 Asn 5 Thr Leu Ser Lys 157 Thr	Gln O Asn Gly Asp Gln 155 Asn O Ser	Glu Lys Arg Glu 154 Ala 5 Val	Thr Ser 152 Phe O Lys Pro	Leu 1516 Ser 5 Val Gln Phe Arg 159	149 Ala O Lys Thr Asn Ser 157 Gly	Arg 5 Glu Ser Val Pro 156 Glu 5 Val	Pro Gln Lys Asp 154! Leu Leu Glu	Ser Asn Glu 1530 Glu Lys Asn Gly	Thr 151: Glu Val Gly Leu Glu 159	1500 Lys Pro Ile Lys Lys 158 Leu	Lys Asn Leu Glu Arg 156 Lys O Ser	Pro Phe Glu 155 Lys Lys Phe	Lys Pro 153 Val 0 Glu Lys	Ser 152 Phe 5 Asn Thr Gly Thr 160		
Ser 1500 Thr Asn Pro Leu Lys 158 Leu	Ser 149 Asn 5 Thr Leu Ser Lys 157 Thr	Gln O Asn Gly Asp Gln 155 Asn O Ser	Glu Lys Arg Glu 154 Ala 5 Val Thr	Thr Ser 152 Phe 0 Lys Pro Pro	Leu 151 Ser 5 Val Gln Phe Arg 159 Glu 5	149 Ala O Lys Thr Asn Ser 157 Gly O	Arg 5 Glu Ser Val Pro 156 Glu 5 Val Glu Glu	Pro Gln Lys Asp 154! Leu C Leu Glu Asp	Asn Glu 1530 Glu 5 Lys Asn Gly Ala 161	Thr 151! Glu Val Gly Leu Glu 159 Ala	1500 Lys Pro Ile Lys Lys 158 Leu 5	Lys Asn Leu Glu Arg 156 Lys O Ser	Pro Phe Glu 155 Lys Lys Phe Leu	Lys Pro 153 Val 0 Glu Lys Val Ala	Ser 152 Phe 5 Asn Thr Gly Thr 160 Gln 5		
Ser 1500 Thr Asn Pro Leu Lys 158 Leu	Ser 149 Asn 5 Thr Leu Ser Lys 157 Thr	Gln O Asn Gly Asp Gln 155 Asn O Ser	Lys Arg Glu 154 Ala Val Thr	Thr Ser 152 Phe U Lys Pro Pro Gly 160 Val	Leu 151 Ser 5 Val Gln Phe Arg 159 Glu 5	149 Ala O Lys Thr Asn Ser 157 Gly O	Arg 5 Glu Ser Val Pro 156 Glu 5 Val Glu Glu	Pro Gln Lys Asp 1549 Leu Glu Asp Ile	Asn Glu 1530 Glu Lys Asn Gly Ala 161 Asp	Thr 151! Glu Val Gly Leu Glu 159 Ala	1500 Lys Pro Ile Lys Lys 158 Leu 5	Lys Asn Leu Glu Arg 156 Lys O Ser	Pro Phe Glu 155 Lys Lys Phe Leu Leu	Lys Pro 153 Val Glu Lys Val Ala 161 Asn	Ser 152 Phe 5 Asn Thr Gly Thr 160		
Ser 1500 Thr Asn Pro Leu Lys 158 Leu Ala	Ser 149 Asn 5 Thr Leu Ser Lys 157 Thr 5 Asp	Gln O Asn Gly Asp Gln 155 Asn O Glu Val	Glu Lys Arg Glu 1544 Ala 5 Val Thr Ile Thr 162	Thr Ser 152 Phe U Lys Pro Pro Gly 160 Val	Leu 151 Ser 5 Val Gln Phe Arg 159 Glu 5 Asp	149 Ala O Lys Thr Asn Ser 157 Gly O Glu	Arg 5 Glu Ser Val Pro 156 Glu 5 Val Glu Val	Pro Gln Lys Asp 1549 Leu Glu Asp Ile 162	Ser Asn Glu 1530 Glu Lys Asn Gly Ala 161 Asp 5	Thr 151! Glu Val Gly Leu Glu 159 Ala O	1500 Lys Fro Ile Lys Lys 158 Leu Ala	Lys Asn Leu Glu Arg 156 Lys O Ser His	Pro Phe Glu 155 Lys Lys Phe Leu 163	Lys Pro 153 Val 0 Glu Lys Val Ala 161 Asn	Ser 152 Phe 5 Asn Thr Gly Thr 160 Gln 5		
Ser 1500 Thr Asn Pro Leu Lys 158 Leu Ala	Ser 149 Asn 5 Thr Leu Ser Lys 157 Thr 5 Asp	Gln O Asn Gly Asp Gln 155 Asn O Ser O Glu u Val	Glu Lys Arg Glu 154 Ala 5 Val Thr Ile Thr 162 Val	Thr Ser 152 Phe U Lys Pro Pro Gly 160 Val	Leu 151 Ser 5 Val Gln Phe Arg 159 Glu 5 Asp	149 Ala O Lys Thr Asn Ser 157 Gly O Glu	Arg 5 Glu Ser Val Pro 156 Glu 5 Val Glu Val Asn	Pro Gln Lys Asp 154! Leu Glu Glu Asp Ile 162 Ser	Ser Asn Glu 1530 Glu Lys Asn Gly Ala 161 Asp 5	Thr 151! Glu Val Gly Leu Glu 159 Ala O	1500 Lys Fro Ile Lys Lys 158 Leu Ala	Lys Asn Leu Glu Arg 156 Lys O Ser His Glu Leu	Pro Phe Glu 155 Lys Lys Phe Leu 163 Asp	Lys Pro 153 Val 0 Glu Lys Val Ala 161 Asn	Ser 152 Phe 5 Asn Thr Gly Thr 160 Gln 5		
Ser 1500 Thr Asn Pro Leu Lys 158 Leu Ala	Ser 149 Asn 5 Thr Leu Ser 157 Thr 5 Asp	Gln O Asn Gly Asp Gln 155 Asn O Ser O Glu I Val	Glu Lys Arg Glu 154 Ala 5 Val Thr Ile Thr 162 Val	Thr Ser 152 Phe 0 Lys Pro Gly 160 Val 0 Lys	Leu 151 Ser Val Gln Phe Arg 159 Glu 5 Asp	149 Ala O Lys Thr Asn Ser 157 Gly O Glu	Arg 5 Glu Ser Val Pro 156 Glu 5 Val Glu Val Asn 164	Pro Gln Lys Asp 154! Leu Glu Asp Ile 162 Ser	Asn Glu 1530 Glu 5 Lys Asn Gly Ala 161 Asp 5 Leu	Thr 151: Glu Val Gly Leu Glu 159 Ala O Glu Phe	1500 Lys Fro Ile Lys Lys 158 Leu Ala Glu Thr	Lys Asn Leu Glu Arg 156 Lys Ser His Glu Leu 164	Pro Phe Glu 155 Lys Lys Phe Leu 163 Asp	Lys Pro 153 Val O Glu Lys Val Ala 161 Asn O Glu	Ser 152 Phe 5 Asn Thr Gly Thr 160 Gln 5 Met		
Ser 1500 Thr Asn Pro Leu Lys 158 Leu Ala	Ser 149 Asn 5 Thr Leu Ser 157 Thr 5 Asp	Gln O Asn Gly Asp Gln 155 Asn O Ser O Glu 1 Val 1 Met 163 O Glr	Glu Lys Arg Glu 154 Ala 5 Val Thr 162 Val 5 Asp	Thr Ser 152 Phe 0 Lys Pro Gly 160 Val 0 Lys	Leu 151 Ser 5 Val Gln Phe Arg 159 Glu 5 Asp	149 Ala O Lys Thr Asn Ser 157 Gly O Glu Ser	Arg 5 Glu Ser Val Pro 156 Glu 5 Val Glu Val Asn 164 Ser	Pro Gln Lys Asp 154! Leu Glu Asp Ile 162 Ser O His	Asn Glu 1530 Glu 5 Lys Asn Gly Ala 161 Asp 5 Leu	Thr 151! Glu Val Gly Leu Glu 159 Ala O Glu Phe	1500 Lys Pro Ile Lys Lys 158 Leu Ala Glu Thr	Lys Asn Leu Glu Arg 156 Lys Ser His Glu Leu 164 Lys	Pro Phe Glu 155 Lys Lys Phe Leu 163 Asp	Lys Pro 153 Val O Glu Lys Val Ala 161 Asn O Glu Val	Ser 152 Phe 5 Asn Thr Gly Thr 160 Gln 5		

1 1 4 5 1 .

エレエノレロフロ/スマロ/フ

```
1665
                  1670
                                    1675
Val Thr Val Asp Glu Ile Gly Glu Val Glu Glu Leu Pro Leu Asn Glu
              1685
                                 1690
Ser Ala Asp Ile Thr Phe Ala Thr Leu Asn Thr Lys Gly Asn Glu Gly
                             1705 1710
Asp Ile Val Arg Asp Ser Ile Gly Phe Ile Ser Ser Gln Val Pro Glu
                         1720
Asp Pro Ser Thr Leu Val Thr Val Asp Glu Ile Gln Asp Asp Ser Ser
                      1735
                                        1740
Asp Leu His Leu Val Thr Leu Asp Glu Val Thr Glu Glu Asp Glu Asp
                  1750
                                     1755
Ser Leu Ala Asp Phe Asn Asn Leu Lys Glu Glu Leu Asn Phe Val Thr
              1765
                                 1770
Val Asp Glu Val Gly Glu Glu Asp Gly Asp Asn Asp Leu Lys Val
       1780 1785
Glu Leu Ala Gln Ser Lys Asn Asp His Pro Thr Asp Lys Lys Gly Asn
                         1800
Arg Lys Lys Arg Ala Val Asp Thr Lys Lys Thr Lys Leu Glu Ser Leu
                      1815
                                        1820
Ser Gln Val Gly Pro Val Asn Glu Asn Val Met Glu Glu Asp Leu Lys
                  1830
                                     1835
Thr Met Ile Glu Arg His Leu Thr Ala Lys Thr Pro Thr Lys Arg Val
 1845 1850
                                                   1855
Arg Ile Gly Lys Thr Leu Pro Ser Glu Lys Ala Val Val Thr Glu Pro
          1860
                             1865
Ala Lys Gly Glu Glu Ala Phe Gln Met Ser Glu Val Asp Glu Glu Ser
       1875
                         1880
                                            1885
Gly Leu Lys Asp Ser Glu Pro Glu Arg Lys Arg Lys Lys Thr Glu Asp
                     1895 1900
Ser Ser Ser Gly Lys Ser Val Ala Ser Asp Val Pro Glu Glu Leu Asp
               1910 : 1915
Phe Leu Val Pro Lys Ala Gly Phe Phe Cys Pro Ile Cys Ser Leu Phe
              1925 . . . . . . . . . . . . . . . . 1930
Tyr Ser Gly Glu Lys Ala Met Thr Asn His Cys Lys Ser Thr Arg His
          1940
                            1945
Lys Gln Asn Thr Glu Lys Phe Met Ala Lys Gln Arg Lys Glu Lys Glu
                         1960
                                            1965
Gln Asn Glu Ala Glu Glu Arg Ser Ser Arg
   1970
                      1975
```

<210> 74

<211> 366

<212> PRT

<213> Homo Sapiens

<400> 74

Met Arg Val Met Ala Pro Arg Thr Leu Ile Leu Leu Ser Gly Ala 5 Leu Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe 25 Tyr Thr Ala Val Ser Arg Pro Gly Arg Gly Glu Pro His Phe Ile Ala 40 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala 55 Ala Ser Pro Arg Gly Glu Pro Arg Ala Pro Trp Val Glu Gln Gly VYV ファノリヤルリン 11 U070/140/2

```
70
                                     75
Pro Glu Tyr Trp Asp Arg Glu Thr Gln Lys Tyr Lys Arg Gln Ala Gln
Thr Asp Arg Val Ser Leu Arg Asn Leu Arg Gly Tyr Tyr Asn Gln Ser
                              105
Glu Ala Gly Ser His Ile Ile Gln Arg Met Tyr Gly Cys Asp Val Gly
                          120
Pro Asp Gly Arg Leu Leu Arg Gly Tyr Asp Gln Tyr Ala Tyr Asp Gly
                      135
Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala
                  150
                                     155
Asp Thr Ala Ala Gln Ile Thr Gln Arg Lys Trp Glu Ala Ala Arg Glu
               165
                                 170
Ala Glu Gln Leu Arg Ala Tyr Leu Glu Gly Leu Cys Val Glu Trp Leu
           180
                              185
Arg Arg Tyr Leu Lys Asn Gly Lys Glu Thr Leu Gln Arg Ala Glu His
                          200
Pro Lys Thr His Val Thr His His Pro Val Ser Asp His Glu Ala Thr
                      215
                                         220
Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr
                  230
Trp Gln Trp Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu
    245
                         .
250
Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val
           260
                              265
Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His Glu
                          280
Gly Leu Pro Glu Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser Gln Pro
 290
                    .295
                                         300
Thr Ile Pro Ile Val Gly Ile Val Ala Gly Leu Ala Val Leu Ala Val
305 310
                                     315
                                                        320 ...
Leu Ala Val Leu Gly Ala Val Val Ala Val Val Met Cys Arg Arg Lys
  325
                                 330
                                                   335
Ser Ser Gly Gly Lys Gly Gly Ser Cys Ser Gln Ala Ala Ser Ser Asn
           340
                              345
Ser Ala Gln Gly Ser Asp Glu Ser Leu Ile Ala Cys Lys Ala
       355
                          360
      <210> 75
```

9.0

1.40

<211> 240

<212> PRT

<213> Homo Sapiens

<400> 75

Met Gly Leu Glu Leu Tyr Leu Asp Leu Leu Ser Gln Pro Cys Arg Ala Val Tyr Ile Phe Ala Lys Lys Asn Asp Ile Pro Phe Glu Leu Arg Ile Val Asp Leu Ile Lys Gly Gln His Leu Ser Asp Ala Phe Ala Gln Val 40 Asn Pro Leu Lys Lys Val Pro Ala Leu Lys Asp Gly Asp Phe Thr Leu 55 60 Thr Glu Ser Val Ala Ile Leu Leu Tyr Leu Thr Arg Lys Tyr Lys Val Pro Asp Tyr Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val Asp

```
85
                                   90
Glu Tyr Leu Ala Trp Gln His Thr Thr Leu Arg Arg Ser Cys Leu Arg
                               105
Ala Leu Trp His Lys Val Met Phe Pro Val Phe Leu Gly Gly Pro Val
                           120
Ser Pro Gln Thr Leu Ala Ala Thr Leu Ala Glu Leu Asp Val Thr Leu
                       135
                                          140
Gln Leu Leu Glu Asp Lys Phe Leu Gln Asn Lys Ala Phe Leu Thr Gly
                   150
                                      155
Pro His Ile Ser Leu Ala Asp Leu Val Ala Ile Thr Glu Leu Met His
               165
                                  170
Pro Val Gly Ala Gly Cys Gln Val Phe Glu Gly Arg Pro Lys Leu Ala
                               185
Thr Trp Arg Gln Arg Val Glu Ala Ala Val Gly Glu Asp Leu Phe Gln
 195 200 205
Glu Ala His Glu Val Ile Leu Lys Ala Lys Asp Phe Pro Pro Ala Asp
                       215
Pro Thr Ile Lys Gln Lys Leu Met Pro Trp Val Leu Ala Met Ile Arg
                                      235
     <210> 76
     <211> 953
     <212> PRT ---
     <213> Homo Sapiens
     <400> 76
Met Ile Thr Ser Ala Ala Gly Ile Ile Ser Leu Leu Asp Glu Asp Glu
Pro Gln Leu Lys Glu Phe Ala Leu His Lys Leu Asn Ala Val Val Asn
   20
                                          30
                              25
Asp Phe Trp Ala Glu Ile Ser Glu Ser Val Asp Lys Ile Glu Val Leu
                           40
                                              45
Tyr Glu Asp Glu Gly Phe Arg Ser Arg Gln Phe Ala Ala Leu Val Ala
Ser Lys Val Phe Tyr His Leu Gly Ala Phe Glu Glu Ser Leu Asn Tyr
                   70
                                      75
Ala Leu Gly Ala Arg Asp Leu Phe Asn Val Asn Asp Asn Ser Glu Tyr
                                  90
Val Glu Thr Ile Ile Ala Lys Cys Ile Asp His Tyr Thr Lys Gln Cys
                              105
Val Glu Asn Ala Asp Leu Pro Glu Gly Glu Lys Lys Pro Ile Asp Gln
                           120
Arg Leu Glu Gly Ile Val Asn Lys Met Phe Gln Arg Cys Leu Asp Asp
                       135.
His Lys Tyr Lys Gln Ala Ile Gly Ile Ala Leu Glu Thr Arg Arg Leu
                   150
                                      155
Asp Val Phe Glu Lys Thr Ile Leu Glu Ser Asn Asp Val Pro Gly Met
               165
                                   170
Leu Ala Tyr Ser Leu Lys Leu Cys Met Ser Leu Met Gln Asn Lys Gln
                               185
Phe Arg Asn Lys Val Leu Arg Val Leu Val Lys Ile Tyr Met Asn Leu
                           200
                                              205
Glu Lys Pro Asp Phe Ile Asn Val Cys Gln Cys Leu Ile Phe Leu Asp
                       215
                                         220
                                                  Asp Pro Gln Ala Val Ser Asp Ile Leu Glu Lys Leu Val Lys Glu Asp
```

WU 77/104200 I C.1/U370/140/.

225				٠	230					235					240
			Met	245					250			_		255	
			Phe 260					265		٠.			270		-
		275	Ala				280					285			
Gly	Ser 290	Glu	Lys	Asp	Ser	Asp 295	Ser	Met	Glu	Thr	Glu 300	Glu	Lys	Thr	Ser
305			Val		310					315					320
			Lys	325	•				330					335	
Leu	His	Leu	Gln		Leu	Ile	Arg				Thr	Asp		Met	Ile
τ	t	7.00	340		7	77.	77-7	345			** 7	~	350	m1	
		355	Thr				360					365			
	370		Ala			375					380			_	
385			Asp		390					395				_	400
Lys	Phe	Thr	Ala	Thr	Ala	Ser	Leu	Gly	Val	Ile	His	Lys	Gly		Glu
Lys	Glu	Ala	Leu					Thr					_	415 Thr	Ser
Pro	Glv	Ser	420 Ala	Tvr	Gln	Glu	Glv	425 Glv	Glv	Leu	ጥ _{ህን} -	Δla	430	G] v	T.eu
		435					440					445		_	
	450		Asn			455	3.00	P .	٠.		460				
	Lys	Asn	Ala	Ser	Asn	Asp	Ile	Val	Arg	His	Gly	Gly	Ser	Leu	-
465	Glv	T.211	Ala				Thr				λας	3703	m	7	480
				485			1 1		4 9.0				_	495	
			Asn 500	_				505					510		
		5 15					520				_	525			
	530					535					540			-	Ile
Leu 545		Gly	Leu	Ala	Val 550	Gly	Ile	Ala	Leu	Val 555	Met	Tyr	Gly	Arg	Met 560
		Ala	Asp	Ala 565	Leu	Ile	Glu		Leu 570		Arg	Asp	Lys	_	Pro
Ile	Leu	Arg	Arg 580	Ser		Met	Tyr		Val	Ala	Met	Ala	Tyr 590	_	Gly
Ser	Gly	Asn 595	Asn		Ala	Ile	Arg 600	Arg		Leu	His	Val	Ala		Ser
Asp	Val 610	Asn		Asp	Val	Arg	Ser		Ala	Val	Glu 620	Ser		Gly	Phe
	Leu		Arg	Thr		Glu		Cys	Pro		Val	Val		Leu	Leu
625 Ser		Ser	Tvr	Asn	630 Pro		Val	Ara	ሞኒም	635 Glv		Δla		אם דע	640 Leu
				645	;				650			:		655	
GТĀ	TTE	: cys	660		. өту	rnr	. сту	665		GLU	Ala		670		Leu

▲ ♥ ▲ / ♥ は プロテロ/スマロ / ノ

```
Glu Pro Met Thr Asn Asp Pro Val Asn Tyr Val Arg Gln Gly Ala Leu
                           680
Ile Ala Ser Ala Leu Ile Met Ile Gln Gln Thr Glu Ile Thr Cys Pro
                       695
Lys Val Asn Gln Phe Arg Gln Leu Tyr Ser Lys Val Ile Asn Asp Lys
                   710
                                      715
His Asp Asp Val Met Ala Lys Phe Gly Ala Ile Leu Ala Gln Gly Ile
               725
                                  730
Leu Asp Ala Gly Gly His Asn Val Thr Ile Ser Leu Gln Ser Arg Thr
           740
                              745
Gly His Thr His Met Pro Ser Val Val Gly Val Leu Val Phe Thr Gln
                           760
                                              765
Phe Trp Phe Trp Phe Pro Leu Ser His Phe Leu Ser Leu Ala Tyr Thr
                      775
Pro Thr Cys Val Ile Gly Leu Asn Lys Asp Leu Lys Met Pro Lys Val
                   790
                                . .
                                      795
Gln Tyr Lys Ser Asn Cys Lys Pro Ser Thr Phe Ala Tyr Pro Ala Pro
               805
                                  810
Leu Glu Val Pro Lys Glu Lys Glu Lys Glu Lys Val Ser Thr Ala Val
                              825
Leu Ser Ile Thr Ala Lys Ala Lys Lys Lys Glu Lys Glu Lys
                          840
Lys Glu Glu Lys Met Glu Val Asp Glu Ala Glu Lys Lys Glu Glu
                      855
                                          860
Lys Glu Lys Lys Glu Pro Glu Pro Asn Phe Gln Leu Leu Asp Asn
                   870
                                      875
Pro Ala Arg Val Met Pro Ala Gln Leu Lys Val Leu Thr Met Pro Glu
    890
Thr Cys Arg Tyr Gln Pro Phe Lys Pro Leu Ser Ile Gly Gly Ile Ile
                 905
  900
                                                910
Ile Leu Lys Asp Thr Ser Glu Asp Ile Glu Glu Leu Val Glu Pro Val
            920
                                             925
Ala Ala His Gly Pro Lys Ile Glu Glu Glu Glu Glu Pro Glu Pro
                      935
                                         940
Pro Glu Pro Phe Glu Tyr Ile Asp Asp
945
```

<210> 77 <211> 335 <212> PRT <213> Homo Sapiens

<400> 77

 Met
 Gly
 Lys
 Val
 Lys
 Val
 Gly
 Val
 Asn
 Gly
 Phe
 Gly
 Arg
 Ale
 Arg
 Ala
 A

TT U //IUWPUJ

Glu Ser Thr Gly Val Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu 100 Gln Gly Gly Ala Lys Arg Val Ile Ile Ser Ala Pro Ser Ala Asp Ala 120 125 Pro Met Phe Val Met Gly Val Asn His Glu Lys Tyr Asp Asn Ser Leu 135 140 Lys Ile Ile Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu 150 155 Ala Lys Val Ile His Asp Asn Phe Gly Ile Val Glu Gly Leu Met Thr 170 Thr Val His Ala Ile Thr Ala Thr Gln Lys Thr Val Asp Gly Pro Ser 185 Gly Lys Leu Trp Arg Asp Gly Arg Gly Ala Leu Gln Asn Ile Ile Pro 195 200 Ala Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Ile Pro Glu Leu 215 Asn Gly Lys Leu Thr Gly Met Ala Phe Arg Val Pro Thr Ala Asn Val 230 235 Ser Val Val Asp Leu Thr Cys Arg Leu Glu Lys Pro Ala Lys Tyr Asp 245 250 Asp Ile Lys Lys Val Val Lys Gln Ala Ser Glu Gly Pro Leu Lys Gly Ile Leu Gly Tyr Thr Glu His Gln Val Val Ser Ser Asp Phe Asn Ser 280. Asp Thr His Ser Ser Thr Phe Asp Ala Gly Ala Gly Ile Ala Leu Asn 295 Asp His Phe Val Lys Leu Ile Ser Trp Tyr Asp Asn Glu Phe Gly Tyr 310 315 Ser Asn Arg Val Val Asp Leu Met Ala His Met Ala Ser Lys Glu 325 330

<210> 78

<211> 117

<212> PRT

<213> Homo Sapiens

<400> 78

Met Val Gln Arg Leu Thr Tyr Arg Arg Leu Ser Tyr Asn Thr Ala

1 5 10 15

Ser Asn Lys Thr Arg Leu Ser Arg Thr Pro Gly Asn Arg Ile Val Tyr

20 25 25 30

Leu Tyr Thr Lys Lys Val Gly Lys Ala Pro Lys Ser Ala Cys Gly Val 35 40 45

Cys Pro Gly Lys Leu Arg Gly Val Arg Pro Val Arg Pro Lys Val Leu
50 55 60

Met Arg Leu Ser Lys Thr Lys Lys His Val Ser Arg Ala Tyr Gly Gly 65 70 75 80

Ser Met Cys Ala Lys Cys Val Arg Asp Arg Ile Lys Arg Ala Phe Leu 85 90 95

Ile Glu Glu Gln Lys Ile Ile Val Lys Val Leu Lys Ala Gln Ala Gln
100 105 110

Ser Gln Lys Ala Lys

115

<210> 79

TTU 77/04200 . 1 0.1/00/20/140/7

<211> 614 <212> PRT <213> Homo Sapiens

<400> 79 Arg Ser Gly Gln Pro Arg Ala Glu Gly Leu Gly Ala Gly Ala Ala Gly Pro Leu Arg Ala Met Ala Ala Pro Val Lys Gly Asn Arg Lys Gln Ser 20 Thr Glu Gly Asp Ala Leu Asp Pro Pro Ala Ser Pro Lys Pro Ala Gly 40 Lys Gln Asn Gly Ile Gln Asn Pro Ile Ser Leu Glu Asp Ser Pro Glu 55 Ala Gly Gly Glu Arg Glu Glu Glu Glu Arg Glu Glu Glu Gln Ala 65 70 75 Phe Leu Val Ser Leu Tyr Lys Phe Met Lys Glu Arg His Thr Pro Ile 90 Glu Arg Val Pro His Leu Gly Phe Lys Gln Ile Asn Leu Trp Lys Ile 100 105 Tyr Lys Ala Val Glu Lys Leu Gly Ala Tyr Glu Leu Val Thr Gly Arg 120 Arg Leu Trp Lys Asn Val Tyr Asp Glu Leu Gly Gly Ser Pro Gly Ser 130 Thr Ser Ala Ala Thr Cys Thr Arg Arg His Tyr Glu Arg Leu Val Leu 150 155 Pro Tyr Val Arg His Leu Lys Gly Glu Asp Asp Lys Pro Leu Pro Thr 165 170 Ser Lys Pro Arg Lys Gln Tyr Lys Met Ala Lys Glu Asn Arg Gly Asp . A. A. D. 185 Asp Gly Ala Thr Glu Arg Pro Lys Lys Ala Lys Glu Glu Arg Arg Met 200 205 Asp Gln Met Met Pro Gly Lys Thr Lys Ala Asp Ala Ala Asp Pro Ala 2.15 220 Pro Leu Pro Ser Gln Glu Pro Pro Arg Asn Ser Thr Glu Gln Gln Gly 230 Leu Ala Ser Gly Ser Ser Val Ser Phe Val Gly Ala Ser Gly Cys Pro 245 250 Glu Ala Tyr Lys Arg Leu Leu Ser Ser Phe Tyr Cys Lys Gly Thr His 265 Gly Ile Met Ser Pro Leu Ala Lys Lys Lys Leu Leu Ala Gln Val Ser 280 Lys Val Glu Ala Leu Gln Cys Gln Glu Glu Gly Cys Arg His Gly Ala 295 Glu Pro Gln Ala Ser Pro Ala Val His Leu Pro Glu Ser Pro Gln Ser 310 315 Pro Lys Gly Leu Thr Glu Asn Ser Arg His Arg Leu Thr Pro Gln Glu 330 Gly Leu Gln Ala Pro Gly Gly Ser Leu Arg Glu Glu Ala Gln Ala Gly 345

Gly Leu Gln Ala Pro Gly Gly Ser Leu Arg Glu Glu Ala Gln Ala Gly 340 345 350

Pro Cys Pro Ala Ala Pro Ile Phe Lys Gly Cys Phe Tyr Thr His Pro 355 360 365

Thr Glu Val Leu Lys Pro Val Ser Gln His Pro Arg Asp Phe Phe Ser 370 375 380

Arg Leu Lys Asp Gly Val Leu Leu Gly Pro Pro Gly Lys Glu Gly Leu 385 390 395 400

すす マンノリロマルロン

Ser Val Lys Glu Pro Gln Leu Val Trp Gly Gly Asp Ala Asn Arg Pro 405 Ser Ala Phe His Lys Gly Gly Ser Arg Lys Gly Ile Leu Tyr Pro Lys 425 Pro Lys Ala Cys Trp Val Ser Pro Met Ala Lys Val Pro Ala Glu Ser . 440 Pro Thr Leu Pro Pro Thr Phe Pro Ser Ser Pro Gly Leu Gly Ser Lys 455 - 460 - 460 Arg Ser Leu Glu Glu Glu Gly Ala Ala His Ser Gly Lys Arg Leu Arg 475 Ala Val Ser Pro Phe Leu Lys Glu Ala Asp Ala Lys Lys Cys Gly Ala 485 490 Lys Pro Ala Gly Ser Gly Leu Val Ser Cys Leu Leu Gly Pro Ala Leu 505 Gly Pro Val Pro Pro Glu Ala Tyr Arg Gly Thr Met Leu His Cys Pro 520 Leu Asn Phe Thr Gly Thr Pro Gly Pro Leu Lys Gly Gln Ala Ala Leu 535 Pro Phe Ser Pro Leu Val Ile Pro Ala Phe Pro Ala His Phe Leu Ala 550 555 Thr Ala Gly Pro Ser Pro Met Ala Ala Gly Leu Met His Phe Pro Pro 565 570 Thr -Ser -Phe Asp - Ser -Ala - Leu - Arg - His - Arg Leu - Cys - Pro - Ala - Ser - Ser 585 Ala Trp His Ala Pro Pro Val Thr Thr Tyr Ala Ala Pro His Phe Phe 600 His Leu Asn Thr Lys Leu

610

<210> .80.

<211> 114

<212> PRT

<213> Homo Sapiens

<400> 80

Met Ala Ser Val Ser Glu Leu Ala Cys Ile Tyr Ser Ala Leu Ile Leu His Asp Asp Glu Val Thr Val Thr Glu Asp Lys Ile Asn Ala Leu Ile 25 Lys Ala Ala Gly Val Asn Val Glu Pro Phe Trp Pro Gly Leu Phe Ala 40 Lys Ala Leu Ala Asn Val Asn Ile Gly Ser Leu Ile Cys Asn Val Gly Ala Gly Gly Pro Ala Pro Ala Ala Gly Ala Ala Pro Ala Gly Gly Pro Ala Pro Ser Thr Ala Ala Ala Pro Ala Glu Glu Lys Lys Val Glu Ala 90 Lys Lys Glu Glu Ser Glu Glu Ser Asp Asp Met Gly Phe Gly Leu 105 Phe Asp

<210> 81

<211> 596

<212> PRT

* C110070114017

<213> Homo Sapiens

	< 4	100>	81															
Met				His	Glu	Gly	Arg	Glu	Ile	Pro	Ser	Leu	Glv	Glv	Ala			
1				5					10			•	_	15				
			20			Gln		25					30					
Arg	Arg	Arg	Arg	Arg	Gln	Glu	Leu 40	Glu	Leu	Gly	Val	Gly 45	Ser	Gly	Arg			-
Pro	Gly 50	Gly	Pro	Pro	Pro	Gly 55	Pro	Gly	Arg	Arġ	Gly 60	Thr	Cys	Ala	Ala	. •		
Ala 65	Leu	Pro	Pro	Glu	Trp	Pro	Arg	Arg	Arg	Thr 75	Gly	Leu	Pro	Arg	Arg 80			
`Gly	Pro	Arg	Pro		Leu	Ala	Met	Ala		Trp	Leu	Asn	Lys	Tyr	Phe			
Cor	Tou	~1··	7 0 0	-85		mb			90	_	~ 7	_	***************************************	95				
			100			Thr		105					110		•			
		115				Arg	120					125						
	130					Ser 135					140							
Ala	Thr	Ala	Ser	Cys	Phe	Ser	Ala	Ser	Ser	Gly	Ser	Leu	Pro	Asp	Asp			
	 											**			160		ma.ma	
ser	GTÅ	ser	Thr	ser 165	Asp	Leu	ile	Arg		Tyr	Arg	Ala	Gln	-	Glu			
Arq	His	Phe	Gln		Pro	Tyr	Asn	Glv	170 Pro	Glv	Sar	Co~	Τ	175	¥			
3			180			- 7	•••••	185	rio	Gry	Ser	ser	190	Arg	ьуs			
Leu	Arg	Ala 195	Met	Cys	Arg	Leu	Asp 200	Tyr	Cys	Gly	Gly	Ser 205		Glu	Pro			
Gly	Gly 210	Val	Gln	Arg	Ala	Phe 215	Ser	Ala	Ser	Ser	Ala 220		Gly	Ala	Ala	٠. :		
Gly 225	Cys	Сув	Cys	Ala	Ser 230	Ser	Gly	Ala	Gly	Ala 235		Ala	Ser	Ser			· ·	
	Ser	Ser	Gly	Ser 245		His	Leu	Tyr			Ser	Ser	Glu		240 Arg			
Pro	Ala	Thr	Pro		Glu	Val	Arg		250 Ile	Ser	Pro	Lys		255 Arg	Leu	•		
Ile	Lvs	٧al	260 Glu	Ser	Δla	Ala	Glv	265	Glv	77.	<i>α</i> 1	7	270	.	~ 7			•
		275		•			280					285						
	290					Arg 295					300							
ьуs 305	гÀг	Leu	Leu	Asn	Lys 310	Cys	Ala	Ala	Ser	Ala 315	Ala	Glu	Glu	Ser	_			
	Gly	Lys	Lys	Asp 325		Val	Thr	Ile	Ala 330		Asp	Tyr	Ser		320 Pro			
Phe	Asp	Ala	Lys 340		Asp	Leu	Lys	Ser		Ala	Gly	Lys		335 Glu	Ser			
Ala	Gly	Tyr 355		Glu	Pro	Tyr	Glu 360		Gln	Arg	Ile		350 Thr	Glu	Phe			
Gln	Arg		Glu	Ser	Val	Arg		Gln	His	Lys		365 Ile	Gln	Leu	Tyr			
Asp		Pro	Tyr	Glu	Pro	375 Glu	Glv	Gln	Ser	Va 1	380	Ser	y c.~	C.~	C1			
385			4 -		390		1		~~1	395	raħ	Ser	vah	ser	400			
Ser	Thr	Val	Ser	Pro 405	Arg	Leu	Arg	Glu	Ser 410		Leu	Pro	Gln	Asp	'Asp			

ママレン ファノレザムレン エ しょ/ しじプロ/エマリノ

```
Asp Arg Pro Ala Asp Glu Tyr Asp Gln Pro Trp Glu Trp Asn Arg Val
           420
                               425
Thr Ser Pro Ala Leu Ala Ala Gln Phe Asn Gly Asn Glu Lys Arg Gln
                           440
Ser Ser Pro Ser Pro Ser Arg Asp Arg Arg Gln Leu Arg Ala Pro
                       455
                                           460
Gly Gly Gly Phe Lys Pro Ile Lys His Gly Ser Pro Glu Phe Cys Gly
                                     475
                   470
Ile Leu Gly Glu Arg Val Asp Pro Ala Val Pro Leu Glu Lys Gln Ile
Trp Tyr His Gly Ala Ile Ser Arg Gly Asp Ala Glu Asn Leu Leu Arg
                               505
Leu Cys Lys Glu Cys Ser Tyr Leu Val Arg Asn Ser Gln Thr Ser Lys
                           520
His Asp Tyr Pro Leu Ser Leu Arg Ser Asn Gln Gly Phe Met His Met
Lys Leu Ala Lys Thr Lys Glu Lys Tyr Val Leu Gly Gln Asn Ser Pro
                   550
                                       555
Pro Phe Asp Ser Val Pro Glu Val Ile His Tyr Tyr Thr Thr Arg Lys
                565
                                   570
Leu Pro Ile Lys Gly Ala Glu His Leu Ser Leu Leu Tyr Pro Val Ala
            580
                               585
Val Arg Thr Leu
        595 ·
```

<210> 82

<211> 207

<212> PRT

<213> Homo Sapiens

<400> 82

Met Ser Pro Leu Leu Arg Arg Leu Leu Leu Ala Ala Leu Leu Gln Leu 5 10 Ala Pro Ala Gln Ala Pro Val Ser Gln Pro Asp Ala Pro Gly His Gln Arg Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln 40 Pro Arg Glu Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val 55 Ala Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly 75 Cys Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln 85 Val Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly 105 Glu Met Ser Leu Glu Glu His Ser Gln Cys Glu Cys Arg Pro Lys Lys 120 Lys Asp Ser Ala Val Lys Pro Asp Arg Ala Ala Thr Pro His His Arg Pro Gln Pro Arg Ser Val Pro Gly Trp Asp Ser Ala Pro Gly Ala Pro 150 155 Ser Pro Ala Asp Ile Thr His Pro Thr Pro Ala Pro Gly Pro Ser Ala 165 170 His Ala Ala Pro Ser Thr Thr Ser Ala Leu Thr Pro Gly Pro Ala Ala 180 185

▼▼ U フフ/UTAUJ

Ala Ala Ala Asp Ala Ala Ala Ser Ser Val Ala Lys Gly Gly Ala 200 <210> 83 <211> 429 <212> PRT <213> Homo Sapiens <400> 83 Glu Cys Asp Val Met Thr Tyr Val Arg Glu Thr Cys Gly Cys Cys Asp Cys Glu Lys Arg Cys Gly Ala Leu Asp Val Val Phe Val Ile Asp Ser 25 Ser Glu Ser Ile Gly Tyr Thr Asn Phe Thr Leu Glu Lys Asn Phe Val 3:5 Ile Asn Val Val Asn Arg Leu Gly Ala Ile Ala Lys Asp Pro Lys Ser 55 Glu Thr Gly Thr Arg Val Gly Val Val Gln Tyr Ser His Glu Gly Thr 75 Phe Glu Ala Ile Gln Leu Asp Asp Glu His Ile Asp Ser Leu Ser Ser Phe Lys Glu Ala Val Lys Asn Leu Glu Trp Ile Ala Gly Gly Thr Trp 100 Thr Pro Ser Ala Leu Lys Phe Ala Tyr Asp Arg Leu Ile Lys Glu Ser 120 125 Arg Arg Gln Lys Thr Arg Val Phe Ala Val Val Ile Thr Asp Gly Arg 135 His Asp Pro Arg Asp Asp Leu Asn Leu Arg Ala Leu Cys Asp Arg 150 1.55 Asp Val Thr Val Thr Ala Ile Gly Ile Gly Asp Met Phe His Glu Lys 165 170 175 His Glu Ser Glu Asn Leu Tyr Ser Ile Ala Cys Asp Lys Pro Gln Gln 180 185 Val Arg Asn Met Thr Leu Phe Ser Asp Leu Val Ala Glu Lys Phe Ile 200 205 Asp Asp Met Glu Asp Val Leu Cys Pro Asp Pro Gln Ile Val Cys Pro 215 Asp Leu Pro Cys Gln Thr Glu Leu Ser Val Ala Gln Cys Thr Gln Arg 230 235 Pro Val Asp Ile Val Phe Leu Leu Asp Gly Ser Glu Arg Leu Gly Glu 245 250 Gln Asn Phe His Lys Ala Arg Arg Phe Val Glu Gln Val Ala Arg Arg 260 265 Leu Thr Leu Ala Arg Arg Asp Asp Pro Leu Asn Ala Arg Val Ala 280

TY U 77/UTAUJ

<210> 84 <211> 113 <212> PRT <213> Homo Sapiens

<400> 84 Met Ser Ala Ser Val Val Ser Val Ile Ser Arg Phe Leu Glu Glu Tyr 1 5 Leu Ser Ser Thr Pro Gln Arg Leu Lys Leu Leu Asp Ala Tyr Leu Leu 25 Tyr Ile Leu Leu Thr Gly Ala Leu Gln Phe Gly Tyr Cys Leu Leu Val Gly Thr Phe Pro Phe Asn Ser Phe Leu Ser Gly Phe Ile Ser Cys Val Gly Ser Phe Ile Leu Ala Val Cys Leu Arg Ile Gln Ile Asn Pro Gln Asn Lys Ala Asp Phe Gln Gly Ile Ser Pro Glu Arg Ala Phe Ala Asp 85 Phe Leu Phe Ala Ser Thr Ile Leu His Leu Val Val Met Asn Phe Val 100 105 Gly

<210> 85 <211> 258 <212> PRT <213> Homo Sapiens

<400> 85

Met Ile Asn Ile Glu Ser Met Asp Thr Asp Lys Asp Asp Pro His Gly . 5 10 Arg Leu Glu Tyr Thr Glu His Gln Gly Arg Ile Lys Asn Ala Arg Glu Ala His Ser Gln Ile Glu Lys Arg Arg Arg Asp Lys Met Asn Ser Phe Ile Asp Glu Leu Ala Ser Leu Val Pro Thr Cys Asn Ala Met Ser Arg 55. Lys Leu Asp Lys Leu Thr Val Leu Arg Met Ala Val Gln His Met Lys Thr Leu Arg Gly Ala Thr Asn Pro Tyr Thr Glu Ala Asn Tyr Lys Pro 85 90 Thr Phe Leu Ser Asp Asp Glu Leu Lys His Leu Ile Leu Arg Ala Ala 105 Asp Gly Phe Leu Phe Val Val Gly Cys Asp Arg Gly Lys Ile Leu Phe Val Ser Glu Ser Val Phe Lys Ile Leu Asn Tyr Ser Gln Asn Asp Leu TTU フフ/UT#UJ エンエノンロンバ

135 140 Ile Gly Gln Ser Leu Phe Asp Tyr Leu His Pro Lys Asp Ile Ala Lys 150 . 155 Val Lys Glu Gln Leu Ser Ser Ser Asp Thr Ala Pro Arg Glu Arg Leu 165 170 Ile Asp Ala Lys Thr Gly Leu Pro Val Lys Thr Asp Ile Thr Pro Gly 185 Pro Ser Arg Leu Cys Ser Gly Ala Arg Arg Ser Phe Phe Cys Arg Met 200 Lys Cys Asn Arg Pro Ser Val Asn Val Glu Asp Lys Asn Phe Pro Ser 215 Thr Cys Ser Lys Lys Lys Ala Asp Arg Lys Ala Phe Cys Thr Ile His 230 235 · Ser Thr Gly Tyr Phe Gly Ile Phe Thr Thr Arg Thr Ser Arg His Ile 245 250 Val Leu

<210> 86 <211> 569 <212> PRT <213> Homo Sapiens

<400> 86

Met Ser Thr Met Val Tyr Ile Lys Glu Asp Lys Leu Glu Lys Leu Thr 5 Gln Asp Glu Ile Ile Ser Lys Thr Lys Gln Val Ile Gln Gly Leu Glu 25 Ala Leu Lys Asn Glu His Asn Ser Ile Leu Gln Ser Leu Leu Glu Thr 40 Leu Lys Cys Leu Lys Lys Asp Asp Glu Ser Asn Leu Val Glu Glu Lys 55 60 Ser Asn Met Ile Arg Lys Ser Leu Glu Met Leu Glu Leu Gly Leu Ser 75 Glu Ala Gln Val Met Met Ala Leu Ser Asn His Leu Asn Ala Val Glu 85 90 Ser Glu Lys Gln Lys Leu Arg Ala Gln Val Arg Arg Leu Cys Gln Glu 105 Asn Gln Trp Leu Arg Asp Glu Leu Ala Asn Thr Gln Gln Lys Leu Gln 120 Lys Ser Glu Gln Ser Val Ala Gln Leu Glu Glu Glu Lys Lys His Leu 135 Glu Phe Met Asn Gln Leu Lys Lys Tyr Asp Asp Asp Ile Ser Pro Ser 150 155 Glu Asp Lys Asp Thr Asp Ser Thr Lys Glu Pro Leu Asp Asp Leu Phe 165 Pro Asn Asp Glu Asp Pro Gly Gln Gly Ile Gln Gln Gln His Ser 185 Ser Ala Ala Ala Ala Gln Gln Gly Gly Tyr Glu Ile Pro Ala Arg 200 Leu Arg Thr Leu His Asn Leu Val Ile Gln Tyr Ala Ser Gln Gly Arg 215 Tyr Glu Val Ala Val Pro Leu Cys Lys Gln Ala Leu Glu Asp Leu Glu 235 Lys Thr Ser Gly His Asp His Pro Asp Val Ala Thr Met Leu Asn Ile

<213> Homo Sapiens

<400> 87

** ** /// *****

Met Glu Ala Leu Ile Pro Val Ile Asn Lys Leu Gln Asp Val Phe Asn Thr Val Gly Ala Asp Ile Ile Gln Leu Pro Gln Ile Val Val Val Gly 25 Thr Gln Ser Ser Gly Lys Ser Ser Val Leu Glu Ser Leu Val Gly Arg Asp Leu Leu Pro Arg Gly Thr Gly Ile Val Thr Arg Arg Pro Leu Ile

	50	•				55					60				
00					70					75					Gly 80
				85					90					O.E.	Thr
			TOO					105					110	Ile	Glu
		112					120		Asn	Lys	Gly	Val	Ser	Pro	Glu
	130					135					140	Asn			Leu
143					Met 150					155	Gly	Asp			160
Asp	Ile	Glu	Leu	Gln	Ile	Arg	Glu	Leu	Ile	Leu	Ara	Phe	Tle	Sar	100
				762					170					175	
			TRO		Leu			185					100	Met	Ala
		T 3 2			Lys		200					205	Asp		_
	210				Ile	215					220				
Asp	Ala	Met	Asp	Val	Leu	Met	Gly	Arg	Val	Ile	Pro	Val	Lys	Leu	Glv
 425					230					235					242
				245	Asn				250					255	Lys
			260		Ile			265					270	Lys	
		2/5			Asn		280					285			
	290		•		Met	295					300				
ьув 305	Thr	Arg	Ile	Asn	Val 310	Leu	Ala	Ala	Gln	Tyr 315	Gln		Leu	Leu	
Ser	Tyr	Gly	Glu	Pro	Val	Asp	Asp	Lys	Ser	Ala	Thr	Leu	Leu	Gln	320 Leu
				343	Thr				ጓጓበ					335	
			340		Ser			345					250		
		222					360					365			
	3/0				Phe	375					380				
303					Ile 390					395					400
Gly	Pro	Arg	Pro	Ala 405	Leu	Phe	Val	Pro	Glu 410	Val	Ser	Phe	Glu		Leu
Val	Lys	Arg	Gln 420	Ile	Lys	Arg	Leu	Glu 425	Glu	Pro	Ser	Leu		415 Cys	Val
Glu	Leu	Val 435	His	Glu	Glu	Met	Gln 440	Arg	Ile	Ile.	Gln		430 Cys	Ser	Asn
Tyr	Ser 450		Gln	Glu	Leu	Leu	Arg	Phe	Pro	Lys		445 His	Asp	Ala	Ile
Val		Val	Val	Thr	Cys	455 Leu	Leu	Arg	Lys	Arg	460 Lėu	Pro	Val	Thr	Asn
4 03					4/0					475					400
Glu	Met	Val	His	Asn 485	Leu	Val	Ala	Ile	Glu [.] 490	Leu	Ala	Tyr	Ile	Asn 495	Thr
				•											

マヤ ひ フフィレワームレレン

```
Lys His Pro Asp Phe Ala Asp Ala Cys Gly Leu Met Asn Asn Asn Ile
           500
                               505
Glu Glu Gln Arg Arg Asn Arg Leu Ala Arg Glu Leu Pro Ser Ala Val
                           520
                                              525
Ser Arg Asp Lys Ser Ser Lys Val Pro Ser Ala Leu Ala Pro Ala Ser
                       535
                                          540
Gln Glu Pro Ser Pro Ala Ala Ser Ala Glu Ala Asp Gly Lys Leu Ile
                   550
                                      555
Gln Asp Ser Arg Arg Glu Thr Lys Asn Val Ala Ser Gly Gly Gly
               565
                                   570
Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg Gly Met
                              585
Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys Ser Lys
                           600
Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His Ala Val Asn
                       615
Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser Ala Arg Glu
                  630
                            - 635
Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser Tyr Phe Leu
               645
                                  650
Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala Val Met His
                               665
Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu Leu Val Gly
                           680
Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr Glu Ser Glu
                       695
                                          700
Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu Lys Ala Leu
705
                   710
                                      715
Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr His Leu Trp
            730
     <210> 88 .
                  1. 1. 200
     <211> 37
     <212> PRT
     <213> Homo Sapiens
      <400> 88
Met Gly Asp His Ala Trp Ser Phe Leu Lys Asp Phe Leu Ala Gly Gly
Val Ala Ala Val Ser Lys Thr Ala Val Ala Pro Ile Glu Arg Val
           20
                               25
Lys Leu Leu Gln
       35
      <210> 89
      <211> 1381
      <212> DNA
      <213> Homo Sapiens
      <400> 89
cegcagecet agageegee aagggatgge gatggegtae ttggettgga gaetggegeg
                                                                    60
gegttegtgt eegagttete tgeaggtene tanttteeeg gtagtteane tgeneatgaa
                                                                   120
tanaacagca atgagagccn ctcncaaaga ctttgaaaat tcactgaatc nagtgaaact
                                                                    180
ctngaaaaag gatccangaa acgaaatgaa nctnaaactc tncgcgctat atnancangc
                                                                    240
cnctgaanga cttgtntcat gcccnaacca ngtgtntttg acttgatcna caaggggcca
```

** V /// V 7#00 atgggacaca tggaatgccc ttggcancct gcccnaagaa ctgccaggca naactatgtg 360 gatttggtgt ccantttgan tccntccttg gaatcctcna atcnngtgga ncctggaaca 420 nacaggaaat ccactgggtt tgaaactctg gtggtgacct ccgaagatgg catcacaaag 480 atcatgttca accggcccaa aaagaaaaat gccataaaca ctgagatgta tcatgaaatt 540 atgcgtgcac ttaaagctgc cagcaaggat gactcaatca tcactgtttt aacaggaaat 600 ggtgactatt acagtagtgg gaatgatctg actaacttca ctgatattcc ccctggtgga 660 gtagaggaga aagctaaaaa taatgccgtt ttactgaggg aatttgtggg ctgtttata 720 gattttccta agcctctgat tgcagtggtc aatggtccag ctgtgggcat ctccgtcacc 780 ctccttgggc tattcgatgc cgtgtatgca tctgacaggg caacatttca tacaccattt 840 agtcacctag gccaaagtcc ggaaggatgc tcctcttaca cttttccgaa gataatgagc 900 ccagccaagg caacagagat gcttattttt ggaaagaagt taacagcggg agaggcatgt 960 gctcaaggac ttgttactga agttttccct gatagcactt ttcagaaaga agtctggacc 1020 aggetgaagg catttgcaaa getteececa aatgeettga gaattteaaa agaggtaate 1080 aggaaaagag agagagaaaa actacacgct gttaatgctg aagaatgcaa tgtccttcag 1140 ggaagatgge tatcagatga atgcacaaat gctgtggtga acttcttatc cagaaaatca 1200 aaactgtgat gaccactaca gcagagtaaa gcatgtccaa ggaaggatgt gctgttacct 1260 ctgatttcca gtactggaac taaataagct tcattgtgcc ttttgtagtg ctagaatatc 1320 aattacaatg atgatatttc actacagctc tgatgaataa aaagttttgt aaaacaagaa 1380 1381 <210> 90 <211> 298 --<212>-PRT--<213> Homo Sapiens

<400> 90

Thr Cys Met Pro Pro Val Phe Asp Leu Ile Lys Gly Pro Met Gly His 5 10 Met Glu Cys Pro Trp Pro Ala Arg Thr Ala Arg Asn Tyr Val Asp Leu 25 Val Ser Leu Pro Ser Leu Glu Ser Ser Asn Val Pro Gly Thr Arg Lys 40 Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu Asp Gly Ile Thr 55 Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala Ile Asn Thr Glu 70 75 Met Tyr His Glu Ile Met Arg Ala Leu Lys Ala Ala Ser Lys Asp Asp 90 Ser Ile Ile Thr Val Leu Thr Gly Asn Gly Asp Tyr Tyr Ser Ser Gly 105 Asn Asp Leu Thr Asn Phe Thr Asp Ile Pro Pro Gly Gly Val Glu Glu 120 125 Lys Ala Lys Asn Asn Ala Val Leu Leu Arg Glu Phe Val Gly Cys Phe 135 Ile Asp Phe Pro Lys Pro Leu Ile Ala Val Val Asn Gly Pro Ala Val 150 155 160 Gly Ile Ser Val Thr Leu Leu Gly Leu Phe Asp Ala Val Tyr Ala Ser 165 Asp Arg Ala Thr Phe His Thr Pro Phe Ser His Leu Gly Gln Ser Pro 180 185 Glu Gly Cys Ser Ser Tyr Thr Phe Pro Lys Ile Met Ser Pro Ala Lys 200 Ala Thr Glu Met Leu Ile Phe Gly Lys Lys Leu Thr Ala Gly Glu Ala 215 220 Cys Ala Gln Leu Val Thr Glu Val Phe Pro Asp Ser Thr Phe Gln Lys

```
230
     Glu Val Trp Thr Lys Leu Lys Ala Phe Ala Lys Ala Ser Pro Lys Cys
                     245
                                         250
     Leu Glu Asn Phe Lys Arg Gly Asn Gln Gly Lys Glu Arg Glu Lys Asn
                                     265
                                                        270
     Tyr Thr Pro Leu Met Leu Lys Lys Cys Asn Val Pro Ser Arg Lys Gly
                                 280
     Tyr Gln Asp Glu Cys Thr Lys Cys Leu Trp
           <210> 91
           <211> 1514
           <212> DNA
           <213> Homo Sapiens
           <400> 91
     geogegeget gtgteteege tgegteegee gaggeeeeeg agtgteaggg acaaaageet
                                                                            60
     cogcotgate cogcagoogg ggetcatotg cogcogcogc cgcgctgagg agagttcqcc
                                                                           120
     geegtegeeg eeegtgagga tetgagagee atgteggeea geageetett ggageagaga
                                                                           180
     ccaaaaaggtc aaggaaacaa agtacaaaat ggatctgtac atcaaaagga tggattaaac
                                                                           240
     gatgatgatt ttgaacctta cttgagtcca caggcaaggc ccaataatgc atatactqcc
                                                                           300.
     atgtcagatt cctacttacc cagttactac agtccctcca ttggcttctc ctattctttq
                                                                           360
     ggtgaagetg-ettggtetae-ggggggtgae-aeagecatge-ectacttaae-ttettatqqa-
                                                                         ---4-2-0---
     cagctgagca acggagagcc ccacttccta ccagatgcaa tgtttgggca accaggagcc
                                                                           480
     ctaggtagca ctccatttct tggtcagcat ggttttaatt tctttcccag tgggattgac
                                                                           540
     tteteageat ggggaaataa eagtteteag ggacagteta eteagagete tggatatagt
                                                                           600
     agcaattatg cttatgcacc tagctcctta ggtggagcca tgattgatgg acagtcagct
                                                                           660
     tttgccaatg agaccctcaa taaggctcct ggcatgaata ctatagacca agggatggca
                                                                          5/720 a 1
   Speactgaagt tgggtageac agaagttgea ageaatgtte caaaagttgt aggttetgets: 200780ag
    gttggtagcg ggtccattac tagtaacatc gtggcttcca atagtttgcc tccagccacc
                                                                         9840
attgctcctc caaaaccagc atcttgggct gatattgcta gcaagcctgc aaaacagcaa
                                                                         900
     cctaaactga agaccaagaa tggcattgca gggtcaagtc ttccgccacc cccgataaag
                                                                         ·960`
a recataacatgg atattggaac ttgggataac aagggtoocg ttgcaaaagc cocctcacage and 10204000
     getttggtte agaatatagg teageeaace caggggtete eteageetgt aggteageag
                                                                          1080
     gctaacaata gcccaccagt ggctcaggca tcagtagggc aacagacaca gccattqcct
                                                                          1140
     ccacctccac cacagcetge ccagetttea gtecageaac aggeagetea gecaaccege
                                                                           1200
     tgggtagcac ctcggaaccg tggcagtggg ttcggtcata atggggtgga tggtaatgga
                                                                           1260
     gtaggacagt ctcaggctgg ttctggatct actccttcag aaccccaccc agtgttggag
                                                                           1320
     aagcttcggt ccattaataa ctataacccc aaagattttg actgggaaat ctgaaacatg
                                                                           1380
     ggcgggtttt catcattaaa gaactactct gangacgata ttcaccgttc catttaagtt
                                                                           1440
     ataatatttg gtggancaca anagcaatgg taacaagaga atgggatgcc ngcttatcgt
                                                                           1500
     ttccatgaac gggg
                                                                           1514
            <210> 92
            <211> 407
            <212> PRT
            <213> Homo Sapiens
            <400> 92
     Met Ser Ala Ser Ser Leu Leu Glu Gln Arg Pro Lys Gly Gln Gly Asn
      Lys Val Gln Asn Gly Ser Val His Gln Lys Asp Gly Leu Asn Asp Asp
      Asp Phe Glu Pro Tyr Leu Ser Pro Gln Ala Arg Pro Asn Asn Ala Tyr
```

マンハリマルロン

35

40

```
Thr Ala Met Ser Asp Ser Tyr Leu Pro Ser Tyr Tyr Ser Pro Ser Ile
                          55
     Gly Phe Ser Tyr Ser Leu Gly Glu Ala Ala Trp Ser Thr Gly Gly Asp
         Thr Ala Met Pro Tyr Leu Thr Ser Tyr Gly Gln Leu Ser Asn Gly Glu
                                    90
     Pro His Phe Leu Pro Asp Ala Met Phe Gly Gln Pro Gly Ala Leu Gly
            Ser Thr Pro Phe Leu Gly Gln His Gly Phe Asn Phe Pro Ser Gly
     Ile Asp Phe Ser Ala Trp Gly Asn Asn Ser Ser Gln Gly Gln Ser Thr
                          135
     Gln Ser Ser Gly Tyr Ser Ser Asn Tyr Ala Tyr Ala Pro Ser Ser Leu
                      150
                                       155
     Gly-Gly-Ala-Met-Ile-Asp-Gly-Gln-Ser-Ala-Phe-Ala-Asn-Glu-Thr-Leu
                   165
     Asn Lys Ala Pro Gly Met Asn Thr Ile Asp Gln Gly Met Ala Ala Leu
                                185
     Lys Leu Gly Ser Thr Glu Val Ala Ser Asn Val Pro Lys Val Val Gly
                             200
     Ser Ala Val Gly Ser Gly Ser Ile Thr Ser Asn Ile Val Ala Ser Asn
                         215
     Ser_Leu Pro Pro-Ala-Thr Ile-Ala-Pro-Pro-Lys-Pro-Ala-Ser-Trp Ala
                      230
                                       235
                                                    240
     Asp Ile Ala Ser Lys Pro Ala Lys Gln Gln Pro Lys Leu Lys Thr Lys
                   245
                                    250
     Asn Gly Ile Ala Gly Ser Ser Leu Pro Pro Pro Pro Ile Lys His Asn
       r_ *
               260
                                265
Met Asp Ile Gly Thr Trp Asp Asn Lys Gly Pro Val Ala Lys Ala Pro Report Capetal
     275
                                             285
Ser Gln Ala Leu Val Gln Asn Ile Gly Gln Pro Thr Gln Gly Ser Pro
                                                                 y : 1
             295
290
                                           300
                                                  Gln Pro Val Gly Gln Gln. Ala Asn Asn Ser Pro Pro Val Ala Gln Ala 🛒 💯 💯
                      310
                                       315
     Ser Val Gly Gln Gln Thr Gln Pro Leu Pro Pro Pro Pro Pro Gln Pro
                   325
                                    330
     Ala Gln Leu Ser Val Gln Gln Gln Ala Ala Gln Pro Thr Arg Trp Val
                                345
     Ala Pro Arg Asn Arg Gly Ser Gly Phe Gly His Asn Gly Val Asp Gly
                             360
     Asn Gly Val Gly Gln Ser Gln Ala Gly Ser Gly Ser Thr Pro Ser Glu
                          375
     Pro His Pro Val Leu Glu Lys Leu Arg Ser Ile Asn Asn Tyr Asn Pro
                                       395
     Lys Asp Phe Asp Trp Glu Ile
                   405
          <210> 93
          <211> 2236
          <212> DNA
          <213> Homo Sapiens
          <400> 93
```

ノスト ゼレノ ひりょうひょく

**** ///U~~~

gggtcgtgca acgacgcagc tggacctggc ccagccatgg accgaaaagt ggcccgagaa

41 O 27104203

ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat 180 qtqctqcqaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg 240 gtcatcaatg aacccagccg totgcototg tttgatgcca ttcggccgct gatcccactg 300 aagcaccagg tggaatatga tcagctgacc ccccggcgct ccaggaagct gaaggaggtg 360 cqtctqqacc gtctgcaccc cgaaggcctc ggcctgagtg tgcgtggtgg cctggagttt 420 ggctgtgggc tcttcatctc ccacctcatc aaaggcggtc aggcagacag cgtcgggctc 480 caggtagggg acgagatcgt ccggatcaat ggatattcca tctcctcctg tacccatgag 540 gaggtcatca acctcattcg aaccaagaaa actgtgtcca tcaaagtgag acacatcggc 600 ctgatccccq tqaaaagctc tcctgatgag cccctcactt ggcagtatgt ggatcagttt 660 qtqtcggaat ctgggggcgt gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag 720 qaqaaqaaqq tottcatcaq cotqqtaggc toccqaggcc ttggctgcag catttccagc 780 ggccccatcc agaagcctgg catctttatc agccatgtga aacctggctc cctgtctgct 840 qaqqtqqqat tqgagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac 900 ctqqatcaca aggaggctgt aaatgtgctg aaaaatagcc gcagcctgac catctccatt 960 -gtagetgeag-etggeeggga--getgtteatg-aeagaeeggg--ageggetgge--agaggegegg--1020 cagogtgago tgcagoggca ggagottoto atgcagaago ggotggogat ggagtocaac 1080 aagatcctcc aggagcagca ggagatggag cggcaaagga gaaaagaaat tgcccagaag 1140 gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag 1200 aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact cttgcctaaa 1260 accatcactg ctgaggtaca cccagtaccc cttcgcaagc caaagtatga tcagggagtg 1320 gaacctgagc tcgagcccgc agatgacctg gatggaggca cggaggagca gggagagcag 1380 gatttccgga aatatgagga aggetttgac ccctactcta tgttcacccc agagcagatc 1440 -atggggaagg--atgteegget--eetacgeate--aagaaggagg--gateettaga--eetggeeetg-----1500-gaaggeggtg tggactecce cattgggaag gtggtegttt etgetgtgta tgagegggga 1560 gctgctgagc ggcatggtgg cattgtgaaa ggggacgaga tcatggcaat caacggcaag 1620 attgtgacag actacacct ggctgaggct gacgctgccc tgcagaaggc ctggaatcag 1680 ggeggggact ggategacet tgtggttgee gtetgeeece caaaggagta tgaegatgag 1740 ctgaccttct tgctgaagtc caaaagggga aaccaaattc acgcgttagg aaacagtgag 1800 ctccggcccc acctcgtgaa cacaaagcct cggaccagcc ttgagagagg ccacatgaca 1860 cacaccagat ggcatecttg ggacetgaat ctateaceca ggaateteaa acteeetttg 1920 gccctgaacc agggccagat aaggaacagc tcgggccact tttttgaagg ccaatgtgga 1980 qqaaaqqqaq caqccaqccq tttggqaqaa qatctcaagg atccagactc tcattccttt - 2040 cetetggeee agtgaatttg gteteteeea getttggggg acteetteet tgaaceetaa 2100 taagacccca ctggagtete teteteteca teceteteet etgeeetetg etetaattge 2220 ttccagctta aaaaaa 2236

<210> 94 <211> 652 <212> PRT

<213> Homo Sapiens

<400> 94

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu 15 5 10 Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met 25 Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro 60 55 Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg 70 75 Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu 95 85 90

```
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
                             105
           100
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
                        120
                                  125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
                      135
                                        140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
                        155 ----- 160
       150
 Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
                                 170
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
                             185
 Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
                          200
-Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys-
                      215
                                        220
 Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
                  230
                                     235
 Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
              245
                                 250
 Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
           260
                             265
 Glu Ala-Val Asn-Val Leu-Lys-Asn-Ser-Arg-Ser Leu Thr Ile Ser-Ile
        275 280 285 ...
 Val Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
                     295
                                        300
 Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
         310 315
 Lys Arg Leu Ala Meta Glu Ser Asn Lys Ile Leu Gln Glu Gln Glu
         330 yr
                                                   335
 Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
         340 to about the above 1, 345 or 1, 1, 2, 4, 1 to 350
 Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu
        355 : 360
                                          365
 Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu
                      375
 Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arq
                   390
                                     395
 Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp
               405
                                 410
 Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Asp Phe Arg Lys
                              425
 Tyr Glu Glu Gly Phe Asp Pro Tyr Ser Met Phe Thr Pro Glu Gln Ile
                          440
 Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys Glu Gly Ser Leu
                      455
 Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val
 Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile
               485
                                  490
 Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp
                              505
 Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln
        Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu
```

▼▼ ひ ファバリキャンプ ス ~ A 1 ○ ロノロバスマン・フ

```
535
Tyr Asp Asp Glu Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln
                    550
                                      555
 Ile His Ala Leu Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr
                565
                                   570
Lys Pro Arg Thr Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp
                               585
His Pro Trp Asp Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu
                           600
 Ala Leu Asn Gln Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu
                        615
                                          620
 Gly Gln Cys Gly Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu
                    630
 Lys Asp Pro Asp Ser His Ser Phe Pro Leu Ala Gln
   <210> 95
      <211> 831
      <212> DNA
      <213> Homo Sapiens
      <400> 95
 cataactggg actcgcgcgc ctgcaggtcg acactagtgg gatccaaaga attcggcacq 60
 agaaaccaca atgcccagat ctcaagtaga tgaagagttt ttgaagcaaa gtttaaagga
                                                                   120
 aaaacnattg cagaaaacat ttagattnta tgaaatatat aatnanancc aaaanccatt
                                                                   180
 tgaanttaat ngancettae etgtenteae taaateaggg ttntetgege cacenaaggg
                                                                   240
 engeceancy cetgetgtt tygettanta ggeetnagea tangggeagn tycaateett
                                                                   300
 tecteetnng geggeanatg ggettetgga anaaccettn cettateece anegeaagge
                                                                   360
 ggcccctccc ctgccctnaa aggaaacctc ntggacncag ggaatatang gccaccttga
 agggtggact ggctatentg gaagateaga taccaccaag caatttggag acagtteetg 122480.
 ttgagaataa ccacggtttc catgaaaaga cagcagcgct gaagcttgag qccqaqqqq
cagtgootgo tgagoogttt gacaacacta cotacaagaa cotgoagcat catgactaca 1000 6600
 gcacgtacac cttcttagac ctcaacctcg aactctcaaa attcaggatg cctcagccct
 ceteaggeeg ggagteacet egacaetgag ggeeeteggt gtgaagatga acettecace
 gtcttcactg catcctggag tgcaaaaata aaatccactc aagagtcaaa a
       <210> 96
       <211> 184
       <212> PRT
       <213> Homo Sapiens
       <400> 96
 Arg Lys Asn Cys Arg Lys His Leu Asp Met Lys Tyr Ile Lys His Leu
                                   10
 Leu Pro Tyr Leu Ser Ser Leu Asn Gln Gly Leu Arg His Arg Ala Ala
             20
                                25
                                                  . 30
 Arg Leu Leu Cys Trp Leu Arg Pro His Gly Cys Asn Pro Phe Leu Leu
 Arg Met Gly Phe Trp Asn Pro Leu Ile Pro Ala Arg Arg Pro Leu Pro
                        55
 Cys Pro Arg Lys Pro Gly Arg Glu Tyr Ala Thr Leu Lys Gly Gly Leu
                                       75
 Ala Ile Glu Asp Gln Ile Pro Pro Ser Asn Leu Glu Thr Val Pro Val
                 85
                                    90
```

```
Glu Asn Asn His Gly Phe His Glu Lys Thr Ala Ala Leu Lys Leu Glu
Ala Glu Gly Glu Ala Met Glu Asp Ala Ala Pro Gly Asn Asp Arg
                            120
Gly Gly Thr Gln Glu Pro Ala Pro Val Pro Ala Glu Pro Phe Asp Asn
                        135
Thr Thr Tyr Lys Asn Leu Gln His His Asp Tyr Ser Thr Tyr Thr Phe
                    150
                                        155
Leu Asp Leu Asn Leu Glu Leu Ser Lys Phe Arg Met Pro Gln Pro Ser
                165
                                    170
Ser Gly Arg Glu Ser Pro Arg His
      <210> 97
     <211> 1008
      <212> DNA
      <213> Homo Sapiens
      <400> 97
gcaaggtctc caagtcccag ctcaaggtcc tttcccataa cctgtgcacg gtgctgaagg
                                                                       60
ttcctcatga cccagttgcc cttgaagagc acttcaggga tgatgatgag ggtccagtgt
                                                                      120
ccaaccaggg ctacatgcct tatttaaaca ggttcatttt ggaaaaggtc caagacaact
                                                                      180
ttgacaagat tgaattcaat aggatgtgtt ggaccetetg tgtcaaaaaa aacetcacaa
                                                                      240
agaatcccct gctcattaca gaagaanatg catttaaaat atgggttatt ttcaactttt
                                                                      300
tatctgagga caagtatcca ttaattattg tgtcagaana gattgaatac ctgcttaaga
                                                                      360
agcttacaga agctatggga ggaggttggc agcaagaaca atttgaacat tataaaatca
                                                                      420
actttgatga cagtaaaaat ggcctttctg catgggaact tattgagctt attggaaatg
                                                                      480
gacagtttag caaaggcatg gaccggcaga ctgtgtctat ggcaattaat gaagtcttta
                                                                      540
atgaacttat attagatgtg ttaaagcagg gttacatgat gaaaaagggc cacagacgga
                                                                      600
aaaactggac tgaacgatgg tttgtactaa aacccaacat aatttcttac tatgtgagtg
                                                                      660
aggatetgaa ggataagaaa ggagacatte tettggatga aaattgetgt gtagagteet
                                                                      720
tgcctgacaa agatggaaag aaatgccttt ttctcgtaaa atgttttgat aagacttttg
                                                                      780
aaatcagtgc ttcagataag aanaanaaac aggagtggat tcaagccatt cattctacta
                                                                      840
ttcatctgtt gaagctgngc agccctccac canacaaaga agccnnccag cttctnaaan
                                                                      900
aactccggna gaatcatctg gctgaacaag angaactgga gcgacaaatg aangaactcc
                                                                      960
aagcccgcca atgaaagcaa ncagcaagag ctggaaggcc ttncggaa
                                                                     1008
      <210> 98
      <211> 312
      <212> PRT
      <213> Homo Sapiens
      <400> 98
Lys Val Ser Lys Ser Gln Leu Lys Val Leu Ser His Asn Leu Cys Thr
                                    10
Val Leu Lys Val Pro His Asp Pro Val Ala Leu Glu Glu His Phe Arg
                                25
Asp Asp Glu Gly Pro Val Ser Asn Gln Gly Tyr Met Pro Tyr Leu
                            40
Asn Arg Phe Ile Leu Glu Lys Val Gln Asp Asn Phe Asp Lys Ile Glu
                        55
Phe Asn Arg Met Cys Trp Thr Leu Cys Val Lys Lys Asn Leu Thr Lys
```

マヤ ♥ ノノ/ ひてんひご

-67-

Asn Pro Leu Leu Ile Thr Glu Glu Ala Phe Lys Ile Trp Val Ile Phe

```
Asn Phe Leu Ser Glu Asp Lys Tyr Pro Leu Ile Ile Val Ser Glu Ile
                                          100
                                                                                                               105
Glu Tyr Leu Leu Lys Lys Leu Thr Glu Ala Met Gly Gly Gly Trp Gln
                                                                                                  120
Gln Glu Gln Phe Glu His Tyr Lys Ile Asn Phe Asp Asp Ser Lys Asn
                                                                                   135
                                                                                                                                                         140
 Gly Leu Ser Ala Trp Glu Leu Ile Glu Leu Ile Gly Asn Gly Gln Phe
                                                              150
                                                                                                                                           155
 Ser Lys Gly Met Asp Arg Gln Thr Val Ser Met Ala Ile Asn Glu Val
                                                                                                                              170
 Phe Asn Glu Leu Ile Leu Asp Val Leu Lys Gln Gly Tyr Met Met Lys
                                          180
                                                                                                                185
 Lys Gly His Arg Arg Lys Asn Trp Thr Glu Arg Trp Phe Val Leu Lys
                                                                                                  200
-Pro Asn-Ile-Ile-Ser-Tyr-Tyr-Val-Ser-Glu-Asp Leu-Lys-Asp-Lys-Lys-Lys-
                                                                                    215
 Gly Asp Ile Leu Leu Asp Glu Asn Cys Cys Val Glu Ser Leu Pro Asp
                                                                      230
                                                                                                                                           235
 Lys Asp Gly Lys Lys Cys Leu Phe Leu Val Lys Cys Phe Asp Lys Thr
                                                        245
                                                                                                                              250
  Phe Glu Ile Ser Ala Ser Asp Lys Lys Gln Glu Trp Ile Gln Ala Ile
                                          260
                                                                                                                265
-His-Ser-Thr-Ile-His-Leu-Leu-Lys-Leu-Ser-Pro-Pro-Pro-Lys-Glu-Ala------
                                                                                                  280
  Gln Leu Leu Lys Leu Arg Asn His Leu Ala Glu Gln Glu Leu Glu Arg
                                                                                    295
  Gln Met Glu Leu Gln Ala Arg Gln
  305 310
                             The State of the party of the state of the s
               7.27 <211>7.1009 (2000)
                                                                                                                                                                                                                                                1000 1000 1000 A HARPY
            ** <212> DNA para (1) production of the control of 
              <213> Homo Sapiens
                                                                                                                                                                                                                                                       The section of the se
                                   <400> 99
  ggctaatgta acatacteta ecaettggte tgaageecag cagtatetga tggataatee
                                                                                                                                                                                                                                                        60
  aacttttgca gaagatgagg agttacaaaa tatggacaaa gaagatqcat taatttqctt
                                                                                                                                                                                                                                                     120
   tgaagaacac attcgggctt tagaaaagga ggaagaagaa gaaaaacaga agagtttqct
                                                                                                                                                                                                                                                     180
  gagagaaagg agacgacagc gaaaaaatag ggaatctttc cagatatttt tagatgaatt
                                                                                                                                                                                                                                                     240
   acatgaacat ggacaactgc attctatgtc atcttggatg gaattgtatc caactattag
                                                                                                                                                                                                                                                      300
   ttctgatatt agattcacta atatgcttgg tcagcctgga tcaactgcac ttgatctttt
                                                                                                                                                                                                                                                      360
   caagttttat gttgaggatc ttaaagcacg ttatcatgac gagaagaaga taataaaaga
                                                                                                                                                                                                                                                      420
   cattctaaag gataaaggat ttgtagttga agtaaacact acttttgaag attttgtggc
                                                                                                                                                                                                                                                      480
   gataatcagt tcaactaaaa gatcaactac attagatgct ggaaatatca aattggcttt
                                                                                                                                                                                                                                                      540
   caatagttta ctagaaaagg cagaagcccg tgaacgtgaa agagaaaaag aagaggctcg
                                                                                                                                                                                                                                                      600
   gaagatgaaa cgaaaagaat ctgcatttaa gagtatgtta aaacaagctg ctcctccgat
                                                                                                                                                                                                                                                      660
   agaattggat gctgtctggg aagatatccg tgagagattt gtaaaagagc cagcatttga
                                                                                                                                                                                                                                                      720
   ggacataact ctagaatctg aaagaaaacg aatatttaaa gattttatgc atgtgcttga
                                                                                                                                                                                                                                                      780
   gcatgaatgt cagcatcatc attcaaagaa caagaaacat tctaagaaat ctaaaaaaca
                                                                                                                                                                                                                                                      840
   tcataggaaa cgttcccgct ctcgatcggg gtcagattca ngatgatgat gatagccatt
                                                                                                                                                                                                                                                      900
    caaagaaaaa aagacagcga tgagaagtct cggtctgntt canaacattc ttccantngc
                                                                                                                                                                                                                                                      960
    agagtetgag agaagtntaa aaagteaaaa nageatagan aggaaagtt
                                                                                                                                                                                                                                                   1009
                         <210> 100
```

1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

<211> 292

71 W 22107402

<212> PRT <213> Homo Sapiens

<400> 100 Ala Asn Val Thr Tyr Ser Thr Thr Trp Ser Glu Ala Gln Gln Tyr Leu Met Asp Asn Pro Thr Phe Ala Glu Asp Glu Glu Leu Gln Asn Met Asp Lys Glu Asp Ala Leu Ile Cys Phe Glu Glu His Ile Arg Ala Leu Glu Lys Glu Glu Glu Glu Lys Gln Lys Ser Leu Leu Arg Glu Arg Arg 55 Arg Gln Arg Lys Asn Arg Glu Ser Phe Gln Ile Phe Leu Asp Glu Leu 75 His Glu His Gly Gln Leu His Ser Met Ser Ser Trp Met Glu Leu Tyr 90 Pro Thr Ile Ser Ser Asp Ile Arg Phe Thr Asn Met Leu Gly Gln Pro 105 Gly Ser Thr Ala Leu Asp Leu Phe Lys Phe Tyr Val Glu Asp Leu Lys 125 Ala Arg Tyr His Asp Glu Lys Lys Ile Ile Lys Asp Ile Leu Lys Asp 135 140 Lys Gly Phe Val Val Glu Val Asn Thr Thr Phe Glu Asp Phe Val Ala 150 155 Ile Ile Ser Ser Thr Lys Arg Ser Thr Thr Leu Asp Ala Gly Asn Ile 165 Lys Leu Ala Phe Asn Ser Leu Leu Glu Lys Ala Glu Ala Arg Glu Arg 180 185 Glu Arg Glu Lys Glu Glu Ala Arg Lys Met Lys Arg Lys Glu Ser Ala 195 2:05 Phe Lys Ser Met Leu Lys Gln Ala Ala Pro Pro Ile Glu Leu Asp Ala 210 215 220 Val Trp Glu Asp Ile Arg Glu Arg Phe Val Lys Glu Pro Ala Phe Glu 230 235 Asp Ile Thr Leu Glu Ser Glu Arg Lys Arg Ile Phe Lys Asp Phe Met 245 250 His Val Leu Glu His Glu Cys Gln His His His Ser Lys Asn Lys Lys 265 His Ser Lys Lys Ser Lys Lys His His Arg Lys Arg Ser Arg Ser Arg 275 280 Ser Gly Ser Asp 290 <210> 101 <211> 983 <212> DNA <213> Homo Sapiens <400> 101 aggtgacaat agatatagaa gtacgttgat gtgcgaagat gtattttgtt ttagccagcg 60 aggaaaaaag aatcagtttg attatacatt taccaaacat taagaattta atatggtaac 120 ttttatttca gtattaaaat agcaatttta tttattactt ttttatatat agaatttgac 180 accaaatttt ggaacttaaa aagaagattc ttaaaactta caatccagat tacgatgagg 240 acctggtgca ggaagettca tetgaagatg teetgggegt teatatggtg gacaaagaca 300 cagagagaga cattgagatg aaacggcaac tacggcgact acgggagctc cacctataca

360

420

480

540

600

660

720

780

840

900

960

983

```
gcacatggaa gaagtaccaa gaggcgatga agacatcctt gggagttcca caacgtgagc
gtgacgaagg ctccttgggc aagccattgt gtccacccga gatactctcg gagacgttgc
caggetetgt gaagaaaagg gtatgettte catcagaaga teatetagag gagtttatag
cagaacatet ceetgaagea teeaateaga gteteeteae tgttgeeeat geagaegeag
gcacccaaac caacggtgac ctggaagacc tggaggagca tgggccaggg cagacagtct
ctgaggaagc cacagaagtt cacatgatgg agggggaccc agacacactg gccgaacttc
tgatcaggga tgtacttcag gagctgtcca gttacaacgg cgaggaggag gacccanagg
aggtgaagac atcettggga gttccacaac gtggtgacct ggaagacctg gaggagcatg
tgncagggca gnnnttctct gaggaagcca caggggttca catgatgcag gtggacccag
ccacgctggc aaagagtgac ctggaagacc tggaggagca tgtgccagag cagacagtct
ctgaggaagc cacaggggtt cac
      <210> 102
      <211> 230
   <21-2>--PRT-----
      <213> Homo Sapiens
      <400> 102
Met Val Asp Lys Asp Thr Glu Arg Asp Ile Glu Met Lys Arg Gln Leu
                                    10
Arg Arg Leu Arg Glu Leu His Leu Tyr Ser Thr Trp Lys Lys Tyr Gln
Glu Ala-Met-Lys-Thr-Ser Leu-Gly-Val Pro-Gln Arg Glu Arg Asp Glu
                            40
Gly Ser Leu Gly Lys Pro Leu Cys Pro Pro Glu Ile Leu Ser Glu Thr
                        55
Leu Pro Gly Ser Val Lys Lys Arg Val Cys Phe Pro Ser Glu Asp His
                    70
                                        75
Leu Glu Glu Phe Ile Ala Glu His Leu Pro Glu Ala Ser Asn Gln Ser
                85
                                    90
Leu Leu Thr Val Ala His Ala Asp Ala Gly Thr Gln Thr Asn Gly Asp
                    105
Leu Glu Asp Leu Glu Glu His Gly Pro Gly Gln Thr Val Ser Glu Glu
                            120
Ala Thr Glu Val His Met Met Glu Gly Asp Pro Asp Thr Leu Ala Glu
                        135
Leu Leu Ile Arg Asp Val Leu Gln Glu Leu Ser Ser Tyr Asn Gly Glu
                    150
                                        155
Glu Glu Asp Pro Glu Val Lys Thr Ser Leu Gly Val Pro Gln Arg Gly
                165
                                    170
Asp Leu Glu Asp Leu Glu Glu His Val Gly Gln Phe Ser Glu Glu Ala
            180
Thr Gly Val His Met Met Gln Val Asp Pro Ala Thr Leu Ala Lys Ser
                            200
Asp Leu Glu Asp Leu Glu Glu His Val Pro Glu Gln Thr Val Ser Glu
                        215
                                            220
Glu Ala Thr Gly Val His
225
                    230
      <210> 103
      <211> 843
      <212> DNA
      <213> Homo Sapiens
```

<400> 103

Mar est District

```
aatncccgct gcaggtcgac actagtggat ccaaagaatt cggcacgagg caagttctgg
                                                                       60
gagetggaca eggaceaega cetgeteate gaegeggaeg acetggegeg geacaatgae
                                                                      120
cacgcccttt ctaccaagat gatagacagg atcttctcag gagcagtcac acgaggcaga
                                                                      180
aaagtgcaga aggaagggaa gatcagctat gccgactttg tctggttttt gatctctgag
                                                                      240
gaagacaaaa aaacaccgac cagcatcgag tactggttcc gctgcatgga cctggacggg
                                                                      300
qacggcgccc tgtccatgtt cgagctcgag tacttctacg aggagcagtg ccgaaggctg
                                                                      360
gacagcatgg ccatcgaggc cctgcccttc caggactgcc tctgccagat gctggacctg
                                                                      420
gtcaagccga ggactgaagg gaagatcacg ctgcaggacc tgaagcgctg caagctggcc
                                                                      480
aacgtettet tegacacett etteaacate gagaagtnee tegaceacga geagaaagag
                                                                      540
cagatetece tgeteaggga eggtgaeage ggegggeeeg agetetegga etgggagaag
                                                                      600
tnccggccga agagtncgac atcctggtgg ccgangaaac cgtggggana nccctgggga
                                                                      660
agacgggttc naaggcgaac tcaccccnt ggancanaaa ctgantgcgc tgcgctccc
                                                                      720
getgggecan aggeettett ceaagegeet eeegetgggg egeegtggaa etgttncaaa
                                                                      780
ttcccctgcg gggacaagaa cttgaaaccg ctgtganncc ccccncnana acconcccg
                                                                      840
                                                                      843
```

<210> 104

<211> 197

<212> PRT

<213> Homo Sapiens

<400> 104

-Arg Cys Arg Ser Thr Leu Val Asp Pro Lys Asn Ser Ala Arg Gly Lys 1 5 10 Phe Trp Glu Leu Asp Thr Asp His Asp Leu Leu Ile Asp Ala Asp Asp 25 Leu Ala Arg His Asn Asp His Ala Leu Ser Thr Lys Met Ile Asp Arg 40 Ile Phe Ser Gly Ala Val Thr Arg Gly Arg Lys Val Gln Lys Glu Gly 55 Lys Ile Ser Tyr Ala Asp Phe Val Trp Phe Leu Ile Ser Glu Glu Asp 70 75 Lys Lys Thr Pro Thr Ser Ile Glu Tyr Trp Phe Arg Cys Met Asp Leu Asp Gly Asp Gly Ala Leu Ser Met Phe Glu Leu Glu Tyr Phe Tyr Glu 105 Glu Gln Cys Arg Arg Leu Asp Ser Met Ala Ile Glu Ala Leu Pro Phe 120 Gln Asp Cys Leu Cys Gln Met Leu Asp Leu Val Lys Pro Arg Thr Glu 135 Gly Lys Ile Thr Leu Gln Asp Leu Lys Arg Cys Lys Leu Ala Asn Val 150 155 Phe Phe Asp Thr Phe Phe Asn Ile Glu Lys Leu Asp His Glu Gln Lys 170 Glu Gln Ile Ser Leu Leu Arg Asp Gly Asp Ser Gly Gly Pro Glu Leu 180 185 Ser Asp Trp Glu Lys 195

<210> 105

<211> 2264

<212> DNA

<213> Homo Sapiens

<400> 105

```
ctagcacaag tacacaggcc ccagccgctt cccctactgg tgtagttcct ggtaccaaat
                                                                               60
        atgcagtacc tgacacgtcc acttaccagt atgatgaatc ttcaggatat tactatgatc
                                                                              120
        cgacaacagg gctctattat gaccccaact cgcaatacta ctataattcc ttgacccagc
                                                                              180
        agtacettta etgggatggg gaaaaagaga eetaegtgee agetgeagag tetageteee
                                                                              240
        accagcagte gggcetgeet cetgeaaaag aggggaaaga gaagaaggag aaacccaaga
                                                                              300
        gcaaaacagc ccagcagatt gccaaagaca tggaacgctg ggctaagagt ttgaataagc
                                                                              360
        agaaagaaaa ctttaaaaat agctttcagc ctgtcaattc cttgagggaa gaagaaagga
                                                                              420
        gagaatetge tgeageagae getggetttg etetettga gaagaaggga geettagetg
                                                                              480
        aaaggcagca gctcatccca gaattggtgc gaaatggaga tgaggagaat cccctcaaaa
                                                                              540
        ggggtctggt tgctgcttac agtggtgaca gtgacaatga ggaggagctg gtggagagac
                                                                              600
        ttgagagtga ggaagagaag ctagctgact ggaagaagat ggcctgtctg ctctgccggc
                                                                              660
        gccagttecc gaacaaagat gccctagtca ggcaccagca actctcagac cttcacaagc
                                                                              720
        aaaacatgga catctaccga cgatccaggc tgagcgagca ggagctggaa gccttggagc
                                                                              780
        taagggagag agagatgaaa taccgagacc gagctgcaga aagacgggag aagtacggca
                                                                              840
        ttccagaacc tccagagccc aagcgcaaga agcagtttga tgccggcact gtgaattacg
                                                                              900
        agcaacccac caaagatggc attgaccaca gtaacattgg caacaagatg ctgcaggcca
                                                                              960
        tgggctggcg ggaaggctct ggcttgggac gaaagtgtca aggcattacg gctcccattg
                                                                             1020
        aggeteaagt teggetaaag ggagetggee taggageeaa aggeagegea tatggtttgt
                                                                             1080
        egggegeega tteetacaaa gatgetgtee ggaaageeat gtttgeeegg tteaetgaga
                                                                             1140
        tggagtgaga gagagagag gagagagatg acaaggagca caagaagtgg tccatctccc
                                                                             1200
        gaattegetg ttacegeetg tetetttaag ggeatgeett gtgetgttaa tagatettag
                                                                             1260
        ggtgaaccac ttcattctgc agggttctcc ctcccacctt aaagaagttc cccttatgtg
                                                                             1320
        ggttgcctgg tgaatggcct tccttcccgc cagagggctt gtgaacagac cggagaggac
                                                                             1380
        agtggattgt ttatactcca gtgtacatag tgtaatgtag cgtgtttaca tgtgtagcct
                                                                             1440
        atgttgtggt ccatcagccc ctcacattcc taggggtttg agatgctgta ggtggtatgt
                                                                             1500
        gacaccaaag ccacctctgt catttgttgt gatgtctttt cttggcaaaa gccttgtgta
                                                                             1560
        tatttgtata ttacacattt gtacagaatt ttggaagatt ttcaatccaa gttgccaaat
                                                                             1620
        ctggctcctt tacaaaagaa ataccttgag aaaaaaaann aannaaaaaa aanncccnan
                                                                             :1680
 nnntttttaa aangggnegg gggeeaannn tttteennee ggggngggna nnaagtaaan 33-1740:
        ngtcccaaat ncccccaaaa nggagcccnn ttaaaattaa angggccgcn nttttaaaan
                                                                            1800
     nttengaatn gggnaaacce tnggggtttn ceaaatttaa eeeetttgaa aaaaaaneee
                                                                            1860
      ctttcncaaa anngggntaa tanccaaaaa gggcccccan ccatttttgc ccnttccaaa
                                                                             1920
aaaatttgnc caancennaa atgggnaaan ggggaateca attttttaaa gggnnaaaan
                                                                           1980
        gggtttaaac nnacgggntt ccaaanttgn ttgggggaat ttttaaattc ccaannnccc
                                                                             2040
        aagggggnca atttagnggn ccccnaatcc cccaaaaant ggttcnnggn tnaaancngc 12100
        cnnnnccnaa tttntanggg tttacttngn tttaaaaaac ccncccaaaa actccccnn
                                                                             2160
        gaaccnaaaa aanaaaagga ngccattttt ngnngnaaac ttttttaann nnccnnttaa
                                                                             2220
        angggttaaa aaannnnnn tnnncccnaa tttttcaaan aang
                                                                             2264
              <210> 106
              <211> 381
```

しょうしいりんしょうしょう

<210> 106 <211> 381 <212> PRT <213> Homo Sapiens

<400> 106

*** /// ///

 Ser Thr
 Ser Thr
 Gln
 Ala
 Pro
 Ala
 Ala
 Ser Pro
 Thr
 Gly
 Val
 Val
 Pro
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15
 15

```
Gln Gln Ser Gly Leu Pro Pro Ala Lys Glu Gly Lys Glu Lys Lys Glu
                   85
    Lys Pro Lys Ser Lys Thr Ala Gln Gln Ile Ala Lys Asp Met Glu Arg
            100
                                   105
    Trp Ala Lys Ser Leu Asn Lys Gln Lys Glu Asn Phe Lys Asn Ser Phe
                               120
   Gln Pro Val Asn Ser Leu Arg Glu Glu Glu Arg Arg Glu Ser Ala Ala
                        135
   Ala Asp Ala Gly Phe Ala Leu Phe Glu Lys Lys Gly Ala Leu Ala Glu
                       150
                                           155
   Arg Gln Gln Leu Ile Pro Glu Leu Val Arg Asn Gly Asp Glu Glu Asn
                                       170
   Pro Leu Lys Arg Gly Leu Val Ala Ala Tyr Ser Gly Asp Ser Asp Asn
               180
                                   185
   Glu Glu Glu Leu Val Glu Arg Leu Glu Ser Glu Glu Glu Lys Leu Ala
                               200
   Asp Trp Lys Lys Met Ala Cys Leu Leu Cys Arg Arg Gln Phe Pro Asn
                           215
   Lys Asp Ala Leu Val Arg His Gln Gln Leu Ser Asp Leu His Lys Gln
                       230
   Asn Met Asp Ile Tyr Arg Arg Ser Arg Leu Ser Glu Gln Glu Leu Glu
   Ala Leu Glu Leu Arg Glu Arg Glu Met Lys Tyr Arg Asp Arg Ala Ala
                                   265
   Glu Arg Arg Glu Lys Tyr Gly Ile Pro Glu Pro Pro Glu Pro Lys Arg
                              280
   Lys Lys Gln Phe Asp Ala Gly Thr Val Asn Tyr Glu Gln Pro Thr Lys
                           295
                                              300
   Asp Gly Ile Asp His Ser Asn Ile Gly Asn Lys Met Leu Gln Ala Met
                      310 315.
   Gly Trp Arg Glu Gly Ser Gly Leu Gly Arg Lys Cys Gln Gly Ile Thr
                           330
                   325
Ala Pro Ile Glu Ala Gln Val Arg. Leu Lys Gly Ala Gly Leu Gly Ala
                                   345.
   Lys Gly Ser Ala Tyr Gly Leu Ser Gly Ala Asp Ser Tyr Lys Asp Ala
                               360
   Val Arg Lys Ala Met Phe Ala Arg Phe Thr Glu Met Glu
                           375
         <210> 107
         <211> 1367
         <212> DNA
         <213> Homo Sapiens
         <400> 107
   gegacacagg cetegagget gtetetgaca agtgtteaca ggaggtgggg acgeetetge
                                                                         60
   gcgaggaacg aggagctacg ggcctgggcc cggttattgc catgggcagc ggctgccgca
                                                                        120
   tegaatgeat attetteage gagtteeace ceaegetggg acceaagate acetateagg
                                                                        180
   tecetgaaga etteatetee egagagetgt ttgacacagt ecaagtgtae ateateacea
   agccagaget geagaacaag ettateactg teacagetat ggaaaagaag etgategget
                                                                        240
                                                                        300
   gtcctgtgtg catcgaacac aagaagtaca gccgcaatgc tctcctcttc aacctgggct
                                                                        360
   tegtgtgtga tgcccaggcc aagacetgcg cectegagce cattgttaaa aagetggetg
                                                                        420
   gctatctgac cacactagag ctagagagca gcttcgtgtc catggaggag agcaagcaga
                                                                        480
   agttggtgcc catcatgacc atcttgctgg aggagctaaa tgcctcaggc cggtgcactc
                                                                        540
   tgcccattga tgagtccaac accatccact tgaaggtgat tgagcagcgg ccagaccctc
                                                                        600
```

WO 27/04405

```
cggtggccca ggagtatgat gtacctgtct ttaccaaaga caaggaggat ttcttcaact
                                                                     660
cacagtggga cctcactaca caacaaatcc tgccctacat tgatgggttc cgccacatcc
                                                                     720
agaagatttc agcagaggca gatgtggagc tcaacctggt gcgcattgct atccagaacc
                                                                     780
tgctgtacta cggcgttgtg acactggtgt ccatcctcca gtactccaat gtatactgcc
                                                                     840
caacqcccaa ggtccaggac ctggtagatg acaagtccct gcaagaggca tgtctatcct
                                                                     900
acgtgaccaa gcaagggcac aagagggcca gtctccggga tgtgttccag ctatactgca
                                                                     960
qcctqaqccc tggcactacc gtgcgagacc tcattggccg ccacccccag cagctgcagc
                                                                     1020
atgttgatga acggaagetg atccagttcg ggcttatgaa gaacctcatc aggcgactac
                                                                     1080
agaagtatcc tgtgcgggtg actcgggaag agcagagcca ccctgcccgg ctttatacag
                                                                     1140
gctgccacag ctatgacgag atctgctgca agacaggcat gagctaccat gagctggatg
                                                                     1200
agoggettga aaatgacccc aacatcatca tetgetggaa gtgaggetgg tagtgactgg
                                                                     1260
atggacacat tgctgtgggt agtccctcct actaggaggc ttgtcatact gtctagaggt
                                                                     1320
tgactcttag ttctgtaaat aaagacatcc atttcaaaca gccaaaa
                                                                     1367
 <210>-108--
      <211> 413
      <212> PRT
      <213> Homo Sapiens
      <400> 108
Asp Thr Gly Leu Glu Ala Val Ser Asp Lys Cys Ser Gln Glu Val Gly
                                    10
-Thr-Pro-Leu-Arg-Glu-Glu-Arg-Gly-Ala-Thr-Gly-Leu-Gly-Pro-Val-Ile------
                                25
Ala Met Gly Ser Gly Cys Arg Ile Glu Cys Ile Phe Phe Ser Glu Phe
His Pro Thr Leu Gly Pro Lys Ile Thr Tyr Gln Val Pro Glu Asp Phe
         . 55
                                            60
Ile Ser Arg Glu Leu Phe Asp Thr Val Gln Val Tyr Ile Ile Thr Lys
     365 - 12. 12. 12. 12. 70 He 11. 11.
                                        75.
Pro Glu Leu Gla Asa Lys Leu Ile Thr Val Thr Ala Met Glu Lys Lys
             85 1 10 90
Leu Ile Gly Cys Pro Val Cys Ile Glu His Lys Lys Tyr Ser Arg Asn
            100
                                105
Ala Leu Leu Phe Asn Leu Gly Phe Val Cys Asp Ala Gln Ala Lys Thr
                            120
Cys Ala Leu Glu Pro Ile Val Lys Lys Leu Ala Gly Tyr Leu Thr Thr
                        135
                                            140
Leu Glu Leu Glu Ser Ser Phe Val Ser Met Glu Glu Ser Lys Gln Lys
                    150
                                         155
 Leu Val Pro Ile Met Thr Ile Leu Leu Glu Glu Leu Asn Ala Ser Gly
                                    170
 Arg Cys Thr Leu Pro Ile Asp Glu Ser Asn Thr Ile His Leu Lys Val
             180
                                 185
 Ile Glu Gln Arg Pro Asp Pro Pro Val Ala Gln Glu Tyr Asp Val Pro
                            200
 Val Phe Thr Lys Asp Lys Glu Asp Phe Phe Asn Ser Gln Trp Asp Leu
                       215
                                             220
 Thr Thr Gln Gln Ile Leu Pro Tyr Ile Asp Gly Phe Arg His Ile Gln
                     230
 Lys Ile Ser Ala Glu Ala Asp Val Glu Leu Asn Leu Val Arg Ile Ala
                                     250
 Ile Gln Asn Leu Leu Tyr Tyr Gly Val Val Thr Leu Val Ser Ile Leu
```

270

265

Gln Tyr Ser Asn Val Tyr Cys Pro Thr Pro Lys Val Gln Asp Leu Val

```
♥♥ ひ ファ/ひかんひン
```

```
エ しょ( ひじけい( よつひ ) ノ
       275
                          280
                                             285
Asp Asp Lys Ser Leu Gln Glu Ala Cys Leu Ser Tyr Val Thr Lys Gln
                      295
                                         300
Gly His Lys Arg Ala Ser Leu Arg Asp Val Phe Gln Leu Tyr Cys Ser
                   310
                                     315 320
Leu Ser Pro Gly Thr Thr Val Arg Asp Leu Ile Gly Arg His Pro Gln
               325
                                  330
Gln Leu Gln His Val Asp Glu Arg Lys Leu Ile Gln Phe Gly Leu Met
                              345
Lys Asn Leu Ile Arg Arg Leu Gln Lys Tyr Pro Val Arg Val Thr Arg
                          360
Glu Glu Gln Ser His Pro Ala Arg Leu Tyr Thr Gly Cys His Ser Tyr
                      375
Asp Glu Ile Cys Cys Lys Thr Gly Met Ser Tyr His Glu Leu Asp Glu
385 390
                                    395
Arg Leu Glu Asn Asp Pro Asn Ile Ile Cys Trp Lys
               405
     <210> 109
      <211> 2113
     <212> DNA
```

<213> Homo Sapiens

<400> 109

	gtgcggttgg	gaacgcggag	cggacggatt	cgattcaacg	gggttccgga	ccacactaca	60
	ccacggagca	ggtcaatgag	ctgaaggaga	aaqqcaacaa	ggccctgagc	ataaataaa	120
	Legalgalge	cttacagtgc	tactccgaag	ctattaagct	ggatccccac	2200200+00	300
	Lycacaycaa	cogulation	gcctatgcca	agaaaggaga	ctaccacaa	~~+	
	acggetgtaa	gaciguegae	ctaaagcctg	actoggggaa	adactattaa	GG3333355	<u>.</u>
	uagueuaga	guuttaaat	Cyclicada	aadccaaaca	aacctatcac	~~~~~+	
	uucucgaggc	aaacaacccc	Caactgaaag	agggtttaca	daatatddad	~~~~	
	- wywyuguau	acceatgaac	Collectada	EGCCEAAtct	atataaaaa	And the second control of	
	acceaggae	aaggacacta	cicagigaic	ctacctacco	ggaggtgata:	Cachaceta-	- F40
.•	Janacaagee	cccgacccg	ggcacgaaac	tacaagatcc	ccggatcatg	accontatas	
•	gegeeeeee	Lyggglegae	ctgggcagta	tqqatqaqqa	ggaagagatt	CC22C2CC+~	660
	caccaccacc	CCCCCCaaa	aaggagacca	agccagagcc	aatogaagaa	gatgttaga	720
•	agaacaayaa	geaggeaetg	aaagaaaaaq	aqctqqqaa	cgatgcctac	2262262	720 78,0
	accettgacac	ageettgaag	cattacgaca	aaqccaaqqa	actagaecee	actaacates	840
	ccacaccac	caaccaayca	geggtatact	ttqaaaaggg	cgactagaat	2244444	900
	agettegega	gaaggccatt	yaagtgggga	gagaaaaccg	agaagactat	00000000	960
	ccaaagcaca	Lycheyaatt	ggcaactcct	acttcaaaga	agaaaagtag	22002+000	1020
	cccacccca	taataagttt	cuggeagage	accgaacccc	agatgtgctc	2202224000	1020
	agcaggcaga	gaaaateetg	aaggagcaag	agcggctggc	ctacataaac	CCCCCCCCC+~~	1140
•	cccggagga	gaayaacaaa	ggcaacgagt	attttcagaa	aggggactat	CCCCC	1200
	cgaagcacca	Lacagaagec.	atcaaaagga	acccgaaaga	toccasatta	tagaggaata	1260
	gagergerry	CLacaccada	ctcctggagt	tccaqctqqc	actcaaccac	tatasaass	1320
	gracecagee	ggageegaee	ttcatcaagg	qttatacaco	gaaagccact	ggggtgg	1380
	cgacgaagga	Clacaccaaa	gccatggatg	tqtaccagaa	ggcgctagac	ataasataas	1440
	geegeaagga	ggcggcagac	ggctaccaqc	gctgtatgat	aacacaatac	2200000000	1500
	acageceega	agatytyaag	cyacgageca	tggccgaccc	tgaggtggag	Cacatastas	
	gegacecage	catgegeett	atcctggaac	agatgcagaa	QQ9CCCCC5U	adaataaaaa	1560 1620
	aacacccaaa	gaaceergta	atagcacaga	agatccagaa	actastaast	ataaatataa	
	cegeaacteg	grgargactt	grrcarcccc	CCttcccttc	gccctcatat	GG222GG	1680
	geegggaceg	cygcgagcag	cacggagcgg	aaqqqaqaqc	aggggagaga	aggggtgata	1740
	tctctatatt	tatacataac	cccggggaag	acacagagac	tcqtacctqc	actatttat~	1800
			_		3 3 - 3	555	1860

<210> 110

<211> 543

<212> PRT

<213> Homo Sapiens

<400> 110

		<4	100>	110												
	1				5		Leu			10					1 5	
	Val	Gly	Asn	Ile 20	Asp	Asp	Ala	Leu	Gln 25	Cys	Tyr	Ser	Glu	Ala 30	Ile	Lys
	Leu	Asp	Pro 35	His	Asn	His	Val	Leu 40	Tyr	Ser	Asn	Arg	Ser 45	Ala	Ala	Tyr
		50					Gln 55					60	•			
	65					70	Trp				75			_		80
-					85		Arg			90					95	
				100			Ala		105					110		
			115				Leu	120	٠.			•	125			
		130					Gln 135	*-		,	٠	140	ŧ			-
	145					150			•	4. 8	155		1. %	٠.		Arg
					165				-	170			٠,		175	Met
				180			Leu		185					190	_	
			195				Pro	200					205			
		210					Glu 215					220			-	
	225					230	Leu				235					240
					245		His			250				•	255	
				260			Thr		265					270		-
			275	•			Arg	280					285			
		290					295					300			-	Ala
	305					310	Phe			•	315					320
					325	•	Leu			330		•			335	
	Lys	Lys	Сув	Gln	Gln	Ala	Glu	Lys	Ile	Leu	Lys	Glu	Gln	Glu	Arg	Leu

```
345
Ala Tyr Ile Asn Pro Asp Leu Ala Leu Glu Glu Lys Asn Lys Gly Asn
                            360
Glu Cys Phe Gln Lys Gly Asp Tyr Pro Gln Ala Met Lys His Tyr Thr
                        375
Glu Ala Ile Lys Arg Asn Pro Lys Asp Ala Lys Leu Tyr Ser Asn Arg
                    390
                                        395
Ala Ala Cys Tyr Thr Lys Leu Leu Glu Phe Gln Leu Ala Leu Lys Asp
                405
                                    410
Cys Glu Glu Cys Ile Gln Leu Glu Pro Thr Phe Ile Lys Gly Tyr Thr
                                425
Arg Lys Ala Ala Ala Leu Glu Ala Met Lys Asp Tyr Thr Lys Ala Met
        435
Asp Val Tyr Gln Lys Ala Leu Asp Leu Asp Ser Ser Cys Lys Glu Ala
                      455
                                            460
Ala Asp Gly Tyr Gln Arg Cys Met Met Ala Gln Tyr Asn Arg His Asp
                    470
                                        475
Ser Pro Glu Asp Val Lys Arg Arg Ala Met Ala Asp Pro Glu Val Gln
                485
                                    490
Gln Ile Met Ser Asp Pro Ala Met Arg Leu Ile Leu Glu Gln Met Gln
                                505
Lys Asp Pro Gln Ala Leu Ser Glu His Leu Lys Asn Pro Val Ile Ala
                            520
Gln Lys Ile Gln Lys Leu Met Asp Val Gly Leu Ile Ala Ile Arg
    530
                        535
```

<210> 111

<211> .2765

3 < 212 > DNA

<213> Homo Sapiens

THE LANGE BEACH STORY OF

<400> 111 en sen gggdetgegaen tgadaagegg letotgeeegg gadetteteg ettteateta gegetgeaete en kart 60 km sen e caatggaggg gegggeaceg cagtgettaa tgetgtetta actagtgtag gaaaaegget e caacccaccg ctgccgaaat gaagtataag aatcttatgg caagggcctt atatgacaat 1997 180 2000 1 gtcccagagt gtgccgagga actggccttt cgcaagggag acatcctgac cgtcatagag cagaacacag ggggactgga aggatggtgg ctgtgctcgt tacacggtcg gcaaggcatt 300 gtcccaggca accgggtgaa gcttctgatt ggtcccatgc aggagactgc ctccagtcac 360 gagcagcetg cetetggact gatgcagcag acetttggcc aacagaagct ctatcaagtg 420 ccaaacccac aggetgetee cegagacacc atetaccaag tgccacette ctaccaaaat 480 cagggaattt accaagtccc cactggccac ggcacccaag aacaagaggt atatcaggtg 540 ccaccatcag tgcagagaag cattggggga accagtgggc cccacgtggg taaaaaggtg 600 ataacccccg tgaggacagg ccatggctac gtatacgagt acccatccag ataccaaaag 660 gatgtetatg atatecetee tteteatace acteaagggg tataegacat ceetecetea 720 tcagcaaaag gccctgtgtt ttcagttcca gtgggagaga taaaacctca aggggtgtat 780 gacatecege etacaaaagg ggtatatgee attecgeeet etgettgeeg ggatgaagea 840 gggcttaggg aaaaagacta tgacttcccc cctcccatga gacaagctgg aaggccggac 900 ctcagaccgg agggggttta tgacattcct ccaacctgca ccaagccagc agggaaggac 960 cttcatgtaa aatacaactg tgacattcca ggagctgcag aaccggtggc tcgaaggcac 1020 cagageetgt eccegaatea eccaeeceeg caacteggae agteagtggg eteteagaae 1080 gacgcatatg atgtcccccg aggcgttcag tttcttgagc caccagcaga aaccagtgag 1140 aaagcaaacc cccaggaaag ggatggtgtt tatgatgtcc ctctgcataa cccgccagat 1200 gctaaaggct ctcgggactt ggtggatggg atcaaccgat tgtctttctc cagtacaggc 1260 agcaccegga gtaacatgte caegtettee aceteeteea aggagteete actgteagee 1320 tecceagete aggacaaaag getetteetg gatecagaca cagetattga gagaetteag 1380

cqqctccagc aggcccttga gatgggtgtc tccaqcctaa tggcactggt cactaccgac 1440 tgqcggtgtt acggatatat ggaaagacac atcaatgaaa tacgcacagc agtggacaag 1500 gtggagctgt tcctgaagga gtacctccac tttgtcaagg gagctgttgc aaatgctgcc 1560 tgcctcccgg aactcatcct ccacaacaag atgaagcggg agctgcaacg agtcgaagac 1620 teccaecaga teetgagtea aaccagecat gaettaaatg agtgeagetg gteeetgaat 1680 atcttggcca tcaacaagcc ccagaacaag tgtgacgatc tggaccggtt tgtgatggtg 1740 qcaaagacgg tgcccgatga cgccaagcag ctcaccacaa ccatcaacac caacgcagag 1800 geoctettea gaeceggeee tggeagettg catetgaaga atgggeegga gageateatg 1860 aactcaacqq agtacccaca cggtggctcc cagggacaqc tgctgcatcc tqqtqaccac 1920 aaggeecagg cecacaacaa ggeactgeec ceaggeetga geaaggagea ggeecetgae 1980 tgtagcagca gtgatggttc tgagaggagc tggatggatg actacgatta cgtccaccta 2040 cagggtaagg aggagtttga gaggcaacag aaagagctat tggaaaaaga gaatatcatg 2100 aaacagaaca agatgcagct ggaacatcat cagctgagcc agttccagct gttggaacaa 2160 qaqattacaa agcccgtgga gaatgacatc tcgaaqtgga agccctctca gaqcctaccc 2220 -accacaaaca-gtggcgtgag-tgctcaggat-cggcagttgc-tgtgcttcta-ctatgaccaa-2280 tgtgagaccc atttcatttc ccttctcaac gccattgacg cactcttcag ttgtgtcagc 2340 teaqeecage eccegegaat ettegtggca cacaqeaagt ttgtcateet caqtqcacae 2400 aaactggtgt tcattggaga cacgctgaca cggcaggtga ctgcccagga cattcgcaac 2460 aaagtcatga actccagcaa ccagctctgc gagcagctca agactatagt catggcaacc 2520 aagatggccg ccctccatta ccccagcacc acggccctgc aggaaatggt gcaccaaqtq 2580 acagacettt ctagaaatge ccagetgtte aagegetett tgetggagat ggeaacgtte 2640 tgagaagaaa aaaaagagga aggggactgc gttaacggtt actaaggaaa actggaaata 2700 -ctgtctggtt--tttgtaaatg--ttatctattt--ttgtagatat--tttatataaa--aatgaaatat----2760 tttcc 2765

<210> 112 <211> 834 <212> PRT <213> Homo Sapiens

3 8 384 July 1

<400> 112

77 W ///UTAUJ

Met Lys Tyr Lys Asn Leu Met Ala Arg Ala Leu Tyr Asp Asn Val Pro Glu Cys Ala Glu Glu Leu Ala Phe Arg Lys Gly Asp Ile Leu Thr Val ...20 25 Ile Glu Gln Asn Thr Gly Gly Leu Glu Gly Trp Trp Leu Cys Ser Leu 40 His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Val Lys Leu Leu Ile 55 Gly Pro Met Gln Glu Thr Ala Ser Ser His Glu Gln Pro Ala Ser Gly 70 75 Leu Met Gln Gln Thr Phe Gly Gln Gln Lys Leu Tyr Gln Val Pro Asn 90 Pro Gln Ala Ala Pro Arg Asp Thr Ile Tyr Gln Val Pro Pro Ser Tyr 105 Gln Asn Gln Gly Ile Tyr Gln Val Pro Thr Gly His Gly Thr Gln Glu 120 . 125 Gln Glu Val Tyr Gln Val Pro Pro Ser Val Gln Arg Ser Ile Gly Gly 135 140 Thr Ser Gly Pro His Val Gly Lys Lys Val Ile Thr Pro Val Arg Thr 150 155 Gly His Gly Tyr Val Tyr Glu Tyr Pro Ser Arg Tyr Gln Lys Asp Val 170 Tyr Asp Ile Pro Pro Ser His Thr Thr Gln Gly Val Tyr Asp Ile Pro 180 1.85 190

Pro Ser Ser Ala Lys Gly Pro Val Phe Ser Val Pro Val Gly Glu Ile 200 Lys Pro Gln Gly Val Tyr Asp Ile Pro Pro Thr Lys Gly Val Tyr Ala 215 Ile Pro Pro Ser Ala Cys Arg Asp Glu Ala Gly Leu Arg Glu Lys Asp 230 235 Tyr Asp Phe Pro Pro Met Arg Gln Ala Gly Arg Pro Asp Leu Arg 245 250 Pro Glu Gly Val Tyr Asp Ile Pro Pro Thr Cys Thr Lys Pro Ala Gly 265 Lys Asp Leu His Val Lys Tyr Asn Cys Asp Ile Pro Gly Ala Ala Glu 275 280 Pro Val Ala Arg Arg His Gln Ser Leu Ser Pro Asn His Pro Pro 295 300 Gln Leu Gly Gln Ser Val Gly Ser Gln Asn Asp Ala Tyr Asp Val Pro 310 315 Arg Gly Val Gln Phe Leu Glu Pro Pro Ala Glu Thr Ser Glu Lys Ala 325 330 Asn Pro Gln Glu Arg Asp Gly Val Tyr Asp Val Pro Leu His Asn Pro 340 . 345 Pro Asp Ala Lys Gly Ser Arg Asp Leu Val Asp Gly Ile Asn Arg Leu 360 Ser-Phe Ser-Ser-Thr-Gly-Ser Thr Arg Ser Asn Met Ser Thr Ser Ser 375 Thr Ser Ser Lys Glu Ser Ser Leu Ser Ala Ser Pro Ala Gln Asp Lys 390 395 Arg Leu Phe Leu Asp Pro Asp Thr Ala Ile Glu Arg Leu Gln Arg Leu 405 410 Gln Gln Ala Leu Glu Met Gly Val Ser Ser Leu Met Ala Leu Val Thr 420 425 430 Thr Asp Trp Arg Cys Tyr Gly Tyr Met Glu Arg His Ile Asn Glu Ile 435 440 445 , Arg Thr Ala Val Asp Lys Val Glu Leu Phe Leu Lys Glu Tyr Leu His 450 455 Phe Val Lys Gly Ala Val Ala Asn Ala Ala Cys Leu Pro Glu Leu Ile 470 . 475 Leu His Asn Lys Met Lys Arg Glu Leu Gln Arg Val Glu Asp Ser His 490 Gln Ile Leu Ser Gln Thr Ser His Asp Leu Asn Glu Cys Ser Trp Ser 505 Leu Asn Ile Leu Ala Ile Asn Lys Pro Gln Asn Lys Cys Asp Asp Leu 520 Asp Arg Phe Val Met Val Ala Lys Thr Val Pro Asp Asp Ala Lys Gln 535 540 Leu Thr Thr Thr Ile Asn Thr Asn Ala Glu Ala Leu Phe Arg Pro Gly 550 555 Pro Gly Ser Leu His Leu Lys Asn Gly Pro Glu Ser Ile Met Asn Ser 570 Thr Glu Tyr Pro His Gly Gly Ser Gln Gly Gln Leu Leu His Pro Gly 580 585 Asp His Lys Ala Gln Ala His Asn Lys Ala Leu Pro Pro Gly Leu Ser 600 Lys Glu Gln Ala Pro Asp Cys Ser Ser Ser Asp Gly Ser Glu Arg Ser 615 Trp Met Asp Asp Tyr Asp Tyr Val His Leu Gln Gly Lys Glu Glu Phe

すすひ ノノバリマムリン

** マンノンマルロン 625 635 Glu Arg Gln Gln Lys Glu Leu Leu Glu Lys Glu Asn Ile Met Lys Gln 645 650 Asn Lys Met Gln Leu Glu His His Gln Leu Ser Gln Phe Gln Leu Leu 665 Glu Gln Glu Ile Thr Lys Pro Val Glu Asn Asp Ile Ser Lys Trp Lys 680 Pro Ser Gln Ser Leu Pro Thr Thr Asn Ser Gly Val Ser Ala Gln Asp 695 700 Arg Gln Leu Leu Cys Phe Tyr Tyr Asp Gln Cys Glu Thr His Phe Ile 710 715 Ser Leu Leu Asn Ala Ile Asp Ala Leu Phe Ser Cys Val Ser Ser Ala 725 730 Gln Pro Pro Arg Ile Phe Val Ala His Ser Lys Phe Val Ile Leu Ser 740 745 750 Ala His Lys Leu Val Phe Ile Gly Asp Thr Leu Thr Arg Gln Val Thr 755 760 Ala Gln Asp Ile Arg Asn Lys Val Met Asn Ser Ser Asn Gln Leu Cys 775 Glu Gln Leu Lys Thr Ile Val Met Ala Thr Lys Met Ala Ala Leu His 785 790 Tyr Pro Ser Thr Thr Ala Leu Gln Glu Met Val His Gln Val Thr Asp Leu Ser Arg Asn Ala Gln Leu Phe Lys Arg Ser Leu Leu Glu Met Ala 820 825 Thr Phe <210> 113 <211> 3429 <212> DNA <213> Homo Sapiens <400> 113 60 120 180 240 300

gagacaaagc agcgcccgtc tgcttcgggc ctctggaatt tagcgctcgc ccagctagcc gcagaaatga ctgctgtcca tgcaggcaac ataaacttca agtgggatcc taaaagtcta gagatcagga ctctggcagt tgagagactg ttggagcctc ttgttacaca ggttacaacc cttgtaaaca ccaatagtaa agggccctct aataagaaga gaggtcgttc taagaaggcc catgttttgg ctgcatctgt tgaacaagca actgagaatt tcttggagaa gggggataaa attgcgaagg agagccagtt tctcaaggag gagcttgtgg ctgctgtaga agatgttcga 360 aaacaaggtg atttgatgaa ggctgctgca ggagagttcg cagatgatcc ctgctcttct 420 gtgaagcgag gcaacatggt tcgggcagct cgagctttgc tctctgctgt tacccggttg 480 ctgattttgg ctgacatggc agatgtctac aaattacttg ttcagctgaa agttgtggaa 540 gatggtatct tgaagttgag gaatgctggc aatgaacaag acttaggaat ccagtataaa 600 gccctaaaac ctgaagtgga taagctgaac attatggcag ccaaaagaca acaggaattg 660 aaagatgttg gccatcgtga tcagatggct gcagctagag gaatcctgca gaagaacgtt 720 degatectet atactgeate ecaggeatge ctacageace etgatgtege agectataag 780 gccaacaggg acctgatata caagcagctg cagcaggcgg tcacaggcat ttccaatgca 840 geccaggeca etgeetcaga egatgeetca cageaceagg gtggaggagg aggagaaetg 900 gcatatgcac tcaataactt tgacaaacaa atcattgtgg accccttgag cttcagcgag 960 gagcgcttta ggccttccct ggaggagcgt ctggaaagca tcattagtgg ggctgccttg 1020 atggccgact cgtcctgcac gcgtgatgac cgtcgtgagc gaattgtggc agagtgtaat 1080 getgteegee aggeeetgea ggaeetgett teggagtaca tgggeaatge tggaegtaaa 1140 gaaagaagtg atgcactcaa ttctgcaata gataaaatga ccaagaagac cagggacttg 1200 cgtagacagc tccgcaaagc tgtcatggac cacgtttcag attctttcct ggaaaccaat 1260

gttccacttt tggtattgat tgaagctgca aagaatggaa atgagaaaga agttaaggag 1320 tatgcccaag ttttccgtga acatgccaac aaattgattg aggttgccaa cttggcctgt 1380 tccatctcaa ataatgaaga aggtgtaaag cttgttcgaa tgtctgcaag ccagttagaa 1440 gccctctgtc ctcaggttat taatgctgca ctggctttag cagcaaaacc acagagtaaa 1500 ctggcccaag agaacatgga tctttttaaa gaacaatggg aaaaacaagt ccgtgttctc 1560 acagatgetg tegatgacat tacttecatt gatgaettet tggetgtete agagaateae 1620 attttggaag atgtgaacaa atgtgtcatt gctctccaag agaaggatgt ggatggcctg 1680 gaccgcacag ctggtgcaat tcgaggccgg gcagcccggg tcattcacgt agtcacctca 1740 gagatggaca actatgagcc aggagtctac acagagaagg ttctggaagc cactaagctg 1800 ctctccaaca cagtcatgcc acgttttact gagcaagtag aagcagccgt ggaagccctc 1860 agctcggacc ctgcccagcc catggatgag aatgagttta tcgatgcttc ccgcctggta 1920 tatgatggca tccgggacat caggaaagca gtgctgatga taaggacccc tgaggagttg 1980 gatgactctg actttgagac agaagatttt gatgtcagaa gcaggacgag cgtccagaca 2040 gaagacgatc agctgatagc tggccagagt gcccgggcga tcatggctca gcttccccag 2100 gagcaaaaag—cgaagattgc-ggaacaggtg-gccagcttcc-aggaagaaaa gagcaagctg 2160 gatgetgaag tgtecaaatg ggacgacagt ggcaatgaca teattgtget ggccaagcag 2220 atgtgcatga ttatgatgga gatgacagac tttacccgag gtaaaggacc actcaaaaat 2280 acateggatg teatcagtge tgccaagaaa attgctgagg caggatccag gatggacaag 2340 cttggccgca ccattgcaga ccattgcccc gactcggctt gcaagcagga cctgctggcc 2400 tacctgcaac gcatcgccct ctactgccac cagctgaaca tctgcagcaa ggtcaaggcc 2460 gaggtgcaga atctcggcgg ggagcttgtt gtctctgggg tggacagcgc catgtccctg 2520 atccaggeag ccaagaactt gatgaatget gtggtgcaga cagtgaagge atcctacgte 2580 geetetacca aataccaaaa gtcacagggt atggettece tcaacettee tgetgtgtea 2640 tggaagatga aggcaccaga gaaaaagcca ttggtgaaga gagagaaaca ggatgagaca 2700 cagaccaaga ttaaacgggc atctcagaag aagcacgtga acccggtgca ggccctcagc 2760 gagttcaaag ctatggacag catctaagtc tgcccaggcc ggccgccccc acccctcggg 2820 gctcctgaat atcagtcact gttcgtcact caaatgaatt tgctaaatac aacactgata 2880 ctagattcca cagggaaatg ggcagactga accagtccag gtggtgaatt ttccaagaac 2940 atagtttaag ttgattaaaa atgcttttag aatgcaggag cctacttcta gctgtatttt 3000 ttgtatgctt aaataaaaat aaaaattcat aaccaaagag aatcccacat tagcttgtta -: 3060 gtaatgetet gaccaageeg agatgeeeat tetettagtg atggeggegt tagggtttga 3120 gagaagggaa tttggctcaa cttcagttga gagggtgcag tccagacagc ttgactgctt 3180 ttaaatgacc aaagatgacc tgtggtaagc aacctgggca tettagaagc agtceetgga 3240 gaaggcatgt teccagaaag gtetetggag ggacaaacte acteagtaaa acataatgta 3300 tcatcatgaa gaaaactgat tetetatgac atgaaatgaa aattttaatg cattgttata 3360 attactaatg tacgctgctg caggacatta ataaagttgc ttttttaggc tacagtgtct 3420 cgatgccat 3429

<210> 114 <211> 906 <212> PRT

<213> Homo Sapiens

<400> 114

 Met
 Thr
 Ala
 Val
 His
 Ala
 Gly
 Asn
 Ile
 Asn
 Phe
 Lys
 Trp
 Asp
 Pro
 Lys

 1
 5
 5
 6
 10
 10
 10
 11
 15
 15

 Ser
 Leu
 Glu
 Ile
 Arg
 Thr
 Leu
 Ala
 Val
 Glu
 Arg
 Leu
 Arg
 Inc
 Arg
 Inc
 Val
 Asn
 Thr
 Asn
 Thr
 Asn
 Ser
 Lys
 Gly
 Pro
 Ser

 Asn
 Lys
 Lys
 Arg
 Gly
 Arg
 Ser
 Lys
 Lys
 Ala
 His
 Val
 Leu
 Ala
 Ser

 Asn
 Lys
 Lys
 Arg
 Gly
 Arg
 Ser
 Lys
 Lys
 Ala
 His
 Val
 Leu
 Ala
				85					90					95	
Val I	Arg	Lys	Gln 100	Gly	Asp	Leu	Met	Lys 105	Ala	Ala	Ala	Gly	Glu 110	Phe	Ala
Asp A	_	Pro 115	Cys	Ser	Ser	Val	Lys 120		Gly		Met	Val 125	Arg	'Ala'	Ala ⁻
Arg A	Ala 130	Ļeu	Leu		Ala		Thr	Arg	Leu	Leu	Ile 140	Leu	Ala	Asp	Met
Ala 1 145	Asp	Val	Tyr	Lys	Leu 150	Leu	Val	Gln	Leu	Lys 155	Val	Val	Glu	Asp	Gly 160
Ile 1		_		165			_		170		_		_	175	
Tyr 1			180					185					190		
Lys i							Asp -200-								
Ala i						Gln		Asn							
Ser (Gln	Ala	Cys	Leu	Gln. 230				Val	Ala 235	Ala	Tyr	Lys	Ala	Asn 240
Arg I				245					250				-	255	
Asn .							Ser								
Gly		Gly		Glu	Leu		Tyr		Leu		Asn				
Ile	Ile 290			Pro	Leu	Ser 295		Ser			Arg 300	Phe	Arg	Pro	Ser
Leu					Glu	Ser	Ile	Ile	Ser	Gly	Ala	Ala	Leu	Met	Ala
305,				mh sa	310	7	, 7		7	315	N/4 4.	(1.31 () 1.72 - 7	371	320
Asp			Cys					_	_	GIU.	_				
							Leu								
			340					345		:			350		
		355								٠.		365			
	370					375	Arg				380				_
Ala 385	Val	Met	Asp	His	Val 390	Ser	Asp	Ser	Phe	Leu 395	Glu	Thr	Asn	Val	Pro 400
	Leu	Val	Leu	Ile 405		Ala	Ala	Lys	Asn 410	Gly	Asn	Glu	Lys	Glu 415	
Lys	Glu	Tyr	Ala 420	Gln	Val	Phe	Arg	Glu 425		Ala	Asn	Lys	Leu 430	Ile	Glu
Val	Ala	Asn 435		Ala	Cys	Ser	Ile 440		Asn	Asn	Glu	Glu 445	Gly	Val	Lys
Leu	Val 450	Arg	Met	Ser	Ala	Ser 455	Gln	Leu	Glu	Ala	Leu 460	Cys	Pro	Gln	Val
	Asn	Ala	Ala	Leu			Ala	Ala	Lys			Ser	Lys	Leu	Ala
465 Gln	Glu	Δan	Met	Aen	470 Leu		Tare	œ۱,,	Gla	475 Trn		Tare	Gln	Val	480 Arg
0111				485			. Lys		490		Jiu	Yo	GIII	495	r.a
			500					505					510		Leu
Ala	Val	Ser 515		. Asn	His	Ile	Leu 520		Asp	Val	Asn	Lys 525		Val	Ile

14 - 1442 17 - 1442 17 - 1744 18 - 1441

Paragrama di Salah
```
Ala Leu Gln Glu Lys Asp Val Asp Gly Leu Asp Arg Thr Ala Gly Ala
                     535
Ile Arg Gly Arg Ala Ala Arg Val Ile His Val Val Thr Ser Glu Met
         550
                                    555
Asp Asn Tyr Glu Pro Gly Val Tyr Thr Glu Lys Val Leu Glu Ala Thr
              565
                                 570
Lys Leu Leu Ser Asn Thr Val Met Pro Arg Phe Thr Glu Gln Val Glu
         580
Ala Ala Val Glu Ala Leu Ser Ser Asp Pro Ala Gln Pro Met Asp Glu
                        600
                                           605
Asn Glu Phe Ile Asp Ala Ser Arg Leu Val Tyr Asp Gly Ile Arg Asp
                     615
Ile Arg Lys Ala Val Leu Met Ile Arg Thr Pro Glu Glu Leu Asp Asp
                       635
                  630
Ser Asp Phe Glu Thr Glu Asp Phe Asp Val Arg Ser Arg Thr Ser Val
              645
                                 650
Gln Thr Glu Asp Asp Gln Leu Ile Ala Gly Gln Ser Ala Arg Ala Ile
                             665
Met Ala Gln Leu Pro Gln Glu Gln Lys Ala Lys Ile Ala Glu Gln Val
                         680
Ala Ser Phe Gln Glu Glu Lys Ser Lys Leu Asp Ala Glu Val Ser Lys
                     695
Trp Asp Asp Ser Gly Asn Asp Ile Ile Val Leu Ala Lys Gln Met Cys
                 · 710
                                    715
Met Ile Met Met Glu Met Thr Asp Phe Thr Arg Gly Lys Gly Pro Leu
              725
                                730
Lys Asn Thr Ser Asp Val Ile Ser Ala Ala Lys Lys Ile Ala Glu Ala
          740 745
Gly Ser Arg Met Asp Lys Leu Gly Arg Thr Ile Ala Asp His Cys Pro
       755
Asp Ser Ala Cys Lys Gln Asp Leu Leu Ala Tyr Leu Gln Arg Ile Ala
         Leu Tyr Cys His Gln Leu Asn Ile Cys Ser Lys Val Lys Ala Glu Val
                                    795
Gln Asn Leu Gly Gly Glu Leu Val Val Ser Gly Val Asp Ser Ala Met
              805
                                810
Ser Leu Ile Gln Ala Ala Lys Asn Leu Met Asn Ala Val Val Gln Thr
                             825
Val Lys Ala Ser Tyr Val Ala Ser Thr Lys Tyr Gln Lys Ser Gln Gly
                         840
Met Ala Ser Leu Asn Leu Pro Ala Val Ser Trp Lys Met Lys Ala Pro
                      855
                                        860
Glu Lys Lys Pro Leu Val Lys Arg Glu Lys Gln Asp Glu Thr Gln Thr
                 870
                                    875
Lys Ile Lys Arg Ala Ser Gln Lys Lys His Val Asn Pro Val Gln Ala
              885
Leu Ser Glu Phe Lys Ala Met Asp Ser Ile
     <210> 115
     <211> 1701
     <212> DNA
     <213> Homo Sapiens
```

<400> 115

eggeeggeeg ceatggetaa egtggetgae acgaagetgt acgacateet gggegtteee 60 qeqqqeqca qegagaacqa getgaagaag geatacagaa agttagecaa ggaatateat 120 cctgataaga atccccaaat gcaggagaca aactttaaag aaataagttt tgcatatgaa 180 gtactatcaa atcctgagaa gcgtgagtta tatgacagat acggagagca aggtcttcgg 240 qaaqqcaqcq gcggaggtgg gtggcatgga ttgatatttt ctctcaccgt tttttqtqqq 300 qqattgttcg gcttcatggg caatcagagt agaagtcgaa atggcagaag aagaggagag 360 gacatgatgc atccactcaa agtatcttta gaagatctgt ataatggcaa gacaaccaaa 420 ctacaactta gcaagaatgt gctctgtagt gcatgcagtg gccaaggcgg aaagtctgga 480 qctqtccaaa agtgtagtgc ttgtcgaggt cgaggtgtgc gcatcatgat cagacaqctq 540 getecaggga tggtacaaca gatgcagtet gtgtgetetg attgtaatgg tgaaggagag 600 qtaattaatg aaaaagaccg ctgtaaaaaa tgtgaaggga agaaggtgat taaaqaagtc 660 aagattettg aagteeaegt agacaaagge atgaaacatg gacagagaat tacatteaet 720 ggggaagcag accaggcccc agagtggaac ccggagacat tgttcttttt gctaccagga 780 qaaaaqaaca tggaggtatt tcagagagat gggaatgatt tgcacatgac atataaaata 840 -ggact-tgt-tg-aageteta-tg-tggat-t-cag-t-t-caea-t-taa--gecaeet-tga--t-ggacg-t-cag--900 attgtggtga aatacccccc tggcaaagta attgaaccag ggtgtgttcg tgtagttcga 960 ggtgaaggga tgccgcagta tcgtaatccc tttgaaaaag gtgggcttta cataaagttt 1020 gatgtgcagt ttcctgaaaa caactggatc aacccagaca agctttctga actagaagat 1080 cttctgccat ctagaccgga agttcctaac ataattggag aaacagagga ggtagagctt 1140 caggaatttg atagcactcg aggctcagga ggtggtcaga ggcgtgaagc ctataatgat 1200 agetetgatg aagaaageag cagecateat ggacetggag tgeagtgtge ecateagtaa 1260 actotgoaaa caaattgoac aggtggattt totttocaca titgcotgat tigttotoag 1320 --caatccaget-ggagtgtett--ateaateeag--atgaaetgag--ggaeatetgt--tggtetatgt-----1380 ataactttta aaattggtat agtatctaca gagtgtataa tttaaactaa ccacaaagct 1440 ttacatcttc attttgactg ttccatagca gaataaagca cttgaaagga aacaagactc 1500 cctttcacac atggattatt ataagtttca atcctggtat ctgtgcttga tttttatcag 1560 ttttgtgtag atttttatgt ttcatatttt aaatttaaat cccacattgt aaagtttgta 1620 caatttgtcc tgaagctttg tgtttggctg cacctgcata agctgctaca aatagaataa 1680 agaatttcat agcctgtaaa a 7.01.050 650

<210> 116

<211> 415

<212> PRT

<213> Homo Sapies

<213> Homo Sapiens

<400> 116

Met Ala Asn Val Ala Asp Thr Lys Leu Tyr Asp Ile Leu Gly Val Pro 5 10 Ala Gly Ala Ser Glu Asn Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala 25 Lys Glu Tyr His Pro Asp Lys Asn Pro Gln Met Gln Glu Thr Asn Phe 40 Lys Glu Ile Ser Phe Ala Tyr Glu Val Leu Ser Asn Pro Glu Lys Arg Glu Leu Tyr Asp Arg Tyr Gly Glu Gln Gly Leu Arg Glu Gly Ser Gly 70 75 Gly Gly Gly Trp His Gly Leu Ile Phe Ser Leu Thr Val Phe Cys Gly 90 Gly Leu Phe Gly Phe Met Gly Asn Gln Ser Arg Ser Arg Asn Gly Arg 105 Arg Arg Gly Glu Asp Met Met His Pro Leu Lys Val Ser Leu Glu Asp 120 Leu Tyr Asn Gly Lys Thr Thr Lys Leu Gln Leu Ser Lys Asn Val Leu 135 140 Cys Ser Ala Cys Ser Gly Gln Gly Gly Lys Ser Gly Ala Val Gln Lys

```
145
                   150
                                        155
Cys Ser Ala Cys Arg Gly Arg Gly Val Arg Ile Met Ile Arg Gln Leu
               165
                                    170 -
Ala Pro Gly Met Val Gln Gln Met Gln Ser Val Cys Ser Asp Cys Asn
                                185
Gly Glu Gly Glu Val Ile Asn Glu Lys Asp Arg Cys Lys Lys Cys Glu
                            200
Gly Lys Lys Val Ile Lys Glu Val Lys Ile Leu Glu Val His Val Asp
                        215
                                            220
Lys Gly Met Lys His Gly Gln Arg Ile Thr Phe Thr Gly Glu Ala Asp
                    230
                                        235
Gln Ala Pro Glu Trp Asn Pro Glu Thr Leu Phe Phe Leu Leu Pro Gly
                                    250
                245
Glu Lys Asn Met Glu Val Phe Gln Arg Asp Gly Asn Asp Leu His Met
            260
                                265
                                                    270
Thr Tyr Lys Ile Gly Leu Val Glu Ala Leu Cys Gly Phe Gln Phe Thr
Leu Ser His Leu Asp Gly Arg Gln Ile Val Val Lys Tyr Pro Pro Gly
                        295
Lys Val Ile Glu Pro Gly Cys Val Arg Val Val Arg Gly Glu Gly Met
                    310
                                        315
Pro Gln Tyr Arg Asn Pro Phe Glu Lys Gly Gly Leu Tyr Ile Lys Phe
                325
                                    330
Asp Val Gln Phe Pro Glu Asn Asn Trp Ile Asn Pro Asp Lys Leu Ser
Glu Leu Glu Asp Leu Leu Pro Ser Arg Pro Glu Val Pro Asn Ile Ile
                            360
                                                365
Gly Glu Thr Glu Glu Val Glu Leu Gln Glu Phe Asp Ser Thr Arg Gly
                        375
                                            380
Ser Gly Gly Gln Arg Arg Glu Ala Tyr Asn Asp Ser Ser Asp Glu.
                    390
                                        395
Glu Ser Ser His His Gly Pro Gly Val Gln Cys Ala His Gln
                405
                                    410
                                                        415
```

<210> 117

<211> 1821

<212> DNA

<213> Homo Sapiens

<400> 117

cgcgtgaact gcttcctgca ggctggccat ggcgcttcac gttcccaagg ctccqqqctt 60 tgcccagatg ctcaaggagg gagcgaaaca cttttcagga ttagaagagg ctgtgtataq 120 aaacatacaa gcttgcaagg agcttgccca aaccactcgt acagcatatg gaccaaaagg 180 aatgaacaaa atggttatca accacttgga gaagttgttt gtgacaaacg atgcagcaac 240 tattttaaga gaactagaag tacagcatcc tgctgcaaaa atgattgtaa tggcttctca 300 tatgcaagag caagaagttg gagatggcac aaactttgtt ctggtatttg ctggagctct 360 cctggaatta gctgaagaac ttctgaggat tggcctgtca gtttcagagg tcatagaagg 420 ttatgaaata gcctgcagaa aagctcatga gattcttcct aatttggtat gttgttctqc 480 aaaaaaacctt cgagatattg atgaagtctc atctctactt cgtacctcca taatqaqtaa 540 acaatatggt aatgaagtat ttctggccaa gcttattgct caqqcatqcq tatctatttt 600. tectgattee ggecatttea atgttgataa cateagagtt tgtaaaatte tgggetetgg 660 tatcagttcc tcttcagtat tgcatggcat ggtttttaag aaggaaaccg aaggtgatgt 720 aacatetgte aaagatgeaa aaatageagt gtaetettgt eettttqatq geatgataae 780 agaaactaag ggaacagtgt tgataaagac tgctgaagaa ttgatgaatt ttagtaaqqq 840 agaagaaaac ctcatggatg cacaagtcaa agctattgct gatactggtg caaatgtcgt 900

Ile Glu Gly Tyr Glu Ile Ala Cys Arg Lys Ala His Glu Ile Leu Pro 135 Asn Leu Val Cys Cys Ser Ala Lys Asn Leu Arg Asp Ile Asp Glu Val 150 155 Ser Ser Leu Leu Arg Thr Ser Ile Met Ser Lys Gln Tyr Gly Asn Glu 170 Val Phe Leu Ala Lys Leu Ile Ala Gln Ala Cys Val Ser Ile Phe Pro 185 Asp Ser Gly His Phe Asn Val Asp Asn Ile Arg Val Cys Lys Ile Leu 200 Gly Ser Gly Ile Ser Ser Ser Val Leu His Gly Met Val Phe Lys 215 Lys Glu Thr Glu Gly Asp Val Thr Ser Val Lys Asp Ala Lys Ile Ala 230 235 Val Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr 250

```
Val Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu
           260
                               265
Glu Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala
                           280
Asn Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr
                       295
Ala Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp
                   310
                                       315
Leu Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu
               325
                                   330
Thr Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Leu
                               34.5
Ser Glu Val Gly Asp Thr Gln Val Val Val Phe Lys His Glu Lys Glu
Asp-Gly-Ala Ile-Ser-Thr-Ile-Val-Leu-Arg-Gly-Ser-Thr-Asp-Asn-Leu-----
                       375
                                           380
Met Asp Asp Ile Glu Arg Val Val Asp Asp Gly Val Asn Thr Phe Lys
                   390
                                       395
Val Leu Thr Arg Asp Lys Arg Leu Val Pro Gly Gly Gly Ala Thr Glu
               405
                                   410
Ile Glu Leu Ala Lys Gln Ile Thr Ser Tyr Gly Glu Thr Cys Pro Gly
                               425
Leu Glu Gln Tyr Ala Ile Lys Lys Phe Ala Glu Ala Phe Glu Ala Ile
Pro Arg Ala Leu Ala Glu Asn Ser Gly Val Lys Ala Asn Glu Val Ile
                       455
Ser Lys Leu Tyr Ala Val His Gln Glu Gly Asn Lys Asn Val Gly Leu
465 470
                                       475
Asp Ile Glu Ala Glu Val Pro Ala Val Lys Asp Met Leu Glu Ala Gly
                                                                     CARL CLA
 485 490 495
Ile Leu Asp Thr Tyr Leu Gly Lys Tyr Trp Ala Ile Lys Leu Ala Thr
                                                                     State Parker
   505 English at 500 cm at 1505
Asn Ala Ala Val Thr Val Leu Arg Val Asp Gln Ile Ile Met Ala Lys
                           520
                                               525
Pro Ala Gly Gly Pro Lys Pro Pro Ser Gly Lys Lys Asp Trp Asp Asp
    530
                       535
                                           540
Asp Gln Asn Asp
545
      <210> 119
      <211> 1321
      <212> DNA
      <213> Homo Sapiens
      <400> 119
cccccaagat ggctgctgag gacgagttac agctgccgcg gctccccgag ctgttcgaaa
                                                                     60
ctggtagaca gttactggac gaagtagaag tggcgactga acccgccggt tcccggatag
                                                                     120
tecaggagaa ggtgtteaag ggettggace teettgagaa ggetgeegaa atqttatege
                                                                     180
agetegaett gtteageega aatgaagatt tggaagagat tgetteeace gaeetgaagt
                                                                     240
accttttggt gccagcgttt caaggagccc tcaccatgaa acaagtcaac cccagcaagc
                                                                     300
gtctagatca tttgcagcgg gctcgagaac actttataaa ctacttaact cagtgccatt
                                                                     360
gctatcatgt ggcagagttt gagctgccca aaaccatgaa caactctgct gaaaatcaca
                                                                     420
etgecaatte etecatgget tateetagte tegttgetat ggeateteaa agacaggeta
                                                                     480
aaatacagag atacaagcag aagaaggagt tggagcatag gttgtctgca atgaaatctg
                                                                     540
```

ctgtggaaag tggtcaagca gatgatgagc gtgttcgtga atattatctt cttcaccttc

```
agaggtggat tgatatcagc ttagaagaga ttgagagcat tgaccaggaa ataaagatcc
   tgagagaaag agactettea agagaggeat caacttetaa eteatetege caggagagge
   ctccagtgaa accettcatt ctcactcgga acatggctca agccaaagta tttggagctg
   gttatccaag tetgccaact atgacggtga gtgactggta tgagcaacat cggaaatatg
   gagcattacc ggatcaggga atagccaagg cagcaccaga ggaattcaga aaagcagctc
   agcaacagga agaacaagaa gaaaaggagg aagaggatga tgaacaaaca ctccacagaq
   cccgggagtg ggatgactgg aaggacaccc atcctagggg ctatgggaac cgacagaaca
   tgggctgatc ttcccacaac accacaggac tgcagggtgc acaactccct gccaaggaaa
   accatgcagt ceteceetee etggteteet getteagete tgtacaacga gggcaaagat
   gctaaatctt gctttgcatt cagtaaagtg tcaagtgatt aagtgtgtat ttgtacccta
   gatgatatga accagcagte ttgttttgge atcatectea teatgttgta ttecagette
   ttaagtggaa ggaaaagagt gctgagaaat ggctctgtat aatctatqqc tatccqaatt
-----<210>-120--
         <211> 339
         <212> PRT
         <213> Homo Sapiens
         <400> 120
   Met Ala Ala Glu Asp Glu Leu Gln Leu Pro Arg Leu Pro Glu Leu Phe
  Glu Thr Gly Arg Gln Leu Leu Asp Glu Val Glu Val Ala Thr Glu Pro
               20
                                   25
   Ala Gly Ser Arg Ile Val Gln Glu Lys Val Phe Lys Gly Leu Asp Leu
                               40
   Leu Glu Lys Ala Ala Glu Met Leu Ser Gln Leu Asp Leu Phe Ser Arg
                           55
   Asn Glu Asp Leu Glu Glu Ile Ala Ser Thr Asp Leu Lys Tyr Leu Leu
       et a la company
                       70 .
                                           75
   Val Pro Ala Phe Gln Gly Ala Leu Thr Met Lys Gln Val Asn Pro Ser
                   85
                                       90
                                                      95
   Lys Arg Leu Asp His Leu Gln Arg Ala Arg Glu His Phe Ile Asn Tyr
                                   105
   Leu Thr Gln Cys His Cys Tyr His Val Ala Glu Phe Glu Leu Pro Lys
                                                   125
   Thr Met Asn Asn Ser Ala Glu Asn His Thr Ala Asn Ser Ser Met Ala
                           135
   Tyr Pro Ser Leu Val Ala Met Ala Ser Gln Arg Gln Ala Lys Ile Gln
                       150
                                           155
   Arg Tyr Lys Gln Lys Lys Glu Leu Glu His Arg Leu Ser Ala Met Lys
                                       170
   Ser Ala Val Glu Ser Gly Gln Ala Asp Asp Glu Arg Val Arg Glu Tyr
                                   185
   Tyr Leu Leu His Leu Gln Arg Trp Ile Asp Ile Ser Leu Glu Glu Ile
                               200
   Glu Ser Ile Asp Gln Glu Ile Lys Ile Leu Arg Glu Arg Asp Ser Ser
   Arg Glu Ala Ser Thr Ser Asn Ser Ser Arg Gln Glu Arg Pro Pro Val
                       230
                                           235
   Lys Pro Phe Ile Leu Thr Arg Asn Met Ala Gln Ala Lys Val Phe Gly
                   245
                                        250
   Ala Gly Tyr Pro Ser Leu Pro Thr Met Thr Val Ser Asp Trp Tyr Glu
                                   265
   Gln His Arg Lys Tyr Gly Ala Leu Pro Asp Gln Gly Ile Ala Lys Ala
```

720

780

840

900

960

1020

1080

1140

1200

1260

1320 1321

ママ シンノリマルシン

YY U フフ/UTAUJ

<210> 121 <211> 2965 <212> DNA <213> Homo Sapiens

<400> 121

geggaggteg geggtegggt cegtetetge cegeggetgt ggeggegeeg geggatecag 60 cettagegtt cetetetggg eggeggegge ggeggetegg ttgaegeete eteegeeage 120 tgagcccgcg ggagcccagg acgccgcttc cccgcccatc cccgctcccc gaggccggcc 180 geetggteat ggegeageeg ggeeeggett eeeageetga egtttetett cageaacggg 240 tagcagaatt ggaaaaaatt aatgcagaat ttttacgtgc acaacagcag cttgaacaag 300 aatttaatca aaagagagca aaatttaagg agttatattt ggctaaagag gaggatctga 360 agaggcaaaa tgcagtatta caagctgcac aagatgattt gggacacctt cgaacccagc 420 tgtgggaagc tcaagcagag atggagaata ttaaggcgat tgccacagtc tctgagaaca 480 ccaagcaaga agctatagat gaagtgaaaa gacagtggag agaagaagtt gcttcacttc 540 aggotgttat gaaagaaaca gttcgtgact atgagcacca gttccacctt aggotggagc 600 aggagegaae acagtgggea cagtatagag aatacgcaga gagggaaata getgatttaa 660 ..720 aagaggatge tgagaaactt eggteegttg tgatgeeaat ggaaaaggaa attgeagett 780 tgaaggataa actgacagag gctgaagaca aaattaaaga gctggaggcc tcaaaggtta 840 aagaactgaa tcattatctg gaagctgaga aatcttgtag gactgatctá gagatgtatg 900 tagctgtttt gaatactcag aaatctgttc tacaggaaga tgctgagaaa ctgcggaaag 960 1020 atacgtggca gaaggccaat gaccagtttc tggaatctca gcgtttactg atgagagaca 1080 tgcagcgaat ggagattgtg ctaacttcag aacagctccg acaagttgaa gaactgaaga 1140 agaaagatca ggaggatgat gaacaacaaa gactcaataa gagaaaggat cacaaaaaag 1200 cagatgttga ggaagaaata aaaataccag tagtgtgtgc tttaactcaa gaagaatctt 1260 cageceagtt ateaaatgaa gaggageatt tagacageae eegtggetea gtteatteet 1320 tagatgcagg cttgctgttg ccatctggag atcctttcag taaatcggac aatgacatgt 1380 ttaaagatgg actcaggaga gcacagtcta cagacagctt gggaacctcg ggctcattgc 1440 aatccaaagc tttaggctat aactacaaag caaaatctgc tggaaacctg gacgagtcag 1500 attttggacc actggtagga gcagattcag tgtctgagaa ctttgatact gcatcccttg 1560 ggtcactcca gatgccaagt gggtttatgt taaccaaaga tcaggaaaga gcaatcaagg 1620 cgatgacacc agaacaagaa gagacagcgt ccctcctctc cagcgttacc cagggcatgg 1680 agagtgccta tgtgtcccct agtggttatc gtttagttag tgaaacagaa tggaatctct 1740 tgcagaaaga ggtacataat gctggaaata aacttggtag acgttgtgat atgtgttcca 1800 attacgaaaa acagttacaa ggaattcaga ttcaggaggc tgaaacgaga gaccaggtga 1,860 aaaaactaca gctgatgcta aggcaagcta atgaccagtt agagaagaca atgaaagata 1920 agcaggaget ggaagaette ataaagcaaa gcagcgaaga ttegagteac cagatetetg cactogtoct aagageceag geeteegaga tettaettga agagttaeag caggggettt 1980 2040 cccaggcaaa gagggatgtt caggaacaga tggcggtgct gatgcagtca cgggaacagg 2100 tttcagaaga gctggtgagg ttacagaaag ataatgacag tctccaggga aagcacagcc 2160 tgcatgtgtc attacagcaa gcagaagact tcatcctccc agacactaca gaggcactgc gggagttggt attaaaatac cgtgaggaca tcattaatgt gcggacagca gcagaccacg 2220 2280 tagaagaaaa gctgaaggct gagatacttt tcctaaaaga gcagatccaa gcagaacagt 2340

gtttaaaaga aaatcttgaa gaaactctgc aactagaaat agaaaactgc aaggaggaaa 2400 tagcttctat ttctagccta aaagctgaat tagaaagaat aaaagtggaa aaaggacagt 2460 tqqaqtccac attaagagag aagtctcaac agcttgagag tcttcaqqaa ataaaqatca 2520 gtttggaaga gcagttaaag aaagagactg ctgctaaggc taccgttgaa cagctaatqt 2580 ttgaagagaa gaacaaagct cagagattac agacagaatt agatgtcagt gagcaagtcc 2640 agagagattt tgtaaagctt tcacagaccc ttcaggtgca gttagagcgg atccggcaag 2700 ctgactcctt ggagagaatc cgggcaattc tgaatgatac taaactgaca gacattaacc 2760 agetteetga gacatgacae ceteatggea ggattetage etgeactttg ggtttttaae 2820 tcatctttag agcaacagta attattattt aactcttaac tgaagaaaga gaagtcacaa 2880 caaaaqqaag actqqaqaaa tgcttacttc tagagggaga agactqtqcq qcacaqqaaa 2940 cagcaaacag tggggtgatc tgcag 2965 <210> 122 <211> 862 <213> Homo Sapiens <400> 122 Met Ala Gln Pro Gly Pro Ala Ser Gln Pro Asp Val Ser Leu Gln Gln 10 Arg Val Ala Glu Leu Glu Lys Ile Asn Ala Glu Phe Leu Arg Ala Gln 25 Gln-Gln Leu-Glu-Glu-Glu-Phe-Asn-Gln-Lys-Arg-Ala-Lys-Phe-Lys-Glu-----Leu Tyr Leu Ala Lys Glu Glu Asp Leu Lys Arg Gln Asn Ala Val Leu 55 Gln Ala Ala Gln Asp Asp Leu Gly His Leu Arg Thr Gln Leu Trp Glu 70 75 Ala Gln Ala Glu Met Glu Asn Ile Lys Ala Ile Ala Thr Val Ser Glu Asn Thr Lys Gln Glu Ala Ile Asp Glu Val Lys Arg Gln Trp Arg Glu 105 ... 944 110 ... Glu Val Ala Ser Leu Gln Ala Val Met Lys Glu Thr Val Arg Asp Tyr 120 125 Glu His Gln Phe His Leu Arg Leu Glu Gln Glu Arg Thr Gln Trp Ala 135 Gln Tyr Arg Glu Tyr Ala Glu Arg Glu Ile Ala Asp Leu Arg Arg 155 160 Leu Ser Glu Gly Gln Glu Glu Asn Leu Glu Asn Glu Met Lys Lys 170 Ala Gln Glu Asp Ala Glu Lys Leu Arg Ser Val Val Met Pro Met Glu 180 185 Lys Glu Ile Ala Ala Leu Lys Asp Lys Leu Thr Glu Ala Glu Asp Lys 200 Ile Lys Glu Leu Glu Ala Ser Lys Val Lys Glu Leu Asn His Tyr Leu 215 Glu Ala Glu Lys Ser Cys Arg Thr Asp Leu Glu Met Tyr Val Ala Val 230 235 Leu Asn Thr Gln Lys Ser Val Leu Gln Glu Asp Ala Glu Lys Leu Arg 250 Lys Glu Leu His Glu Val Cys His Leu Leu Glu Gln Glu Arg Gln Gln 260 265 His Asn Gln Leu Lys His Thr Trp Gln Lys Ala Asn Asp Gln Phe Leu

・・ シンノンマルゼン

285

280

Glu Ser Gln Arg Leu Leu Met Arg Asp Met Gln Arg Met Glu Ile Val

	290					295					300				
Leu			Glu	Gln	Leu		Gln	Val	Glu	Glu		Lvs	Lvs	Lvs	Asn
305					310		,			315		_, _	-,-	-7-	320
Gln	Glu	Asp	Asp	Glu	Gln	Gln	Arg	Leu	Asn		Arg	Lys	Asp	His	
				325					330			•	_	335	-
Lys	Ala	Asp	Val	Glu	Glu	Glu	.Ile	Lys	Ile	Pro	Val	Val	Cys	Ala	Leu
			340		•			345					350		
Thr	Gln		Glu	Ser	Ser	Ala		Leu	Ser	Asn	Glu	Glu	Glu	His	Leu
		355				_	360					365			
				Gly	Ser	Val	His	Ser	Leu	Asp		Gly	Leu	Leu	Leu
				5	D 1	375		~	_		380			_	_
	ser	GIY	Asp	Pro	390	Ser	ьуs				Asp	Met	Phe	Lys	-
385	Lou	λνα	λνα	פות		Ser	mh∽		807		C1	mb~	002	a1	400
						Gly									
200	02		420				- 1 -	425	- 7 -	275	1114		430	nia	GLY
Asn	Leu	Asp		Ser	Asp	Phe	Gly		Leu	Val	Glv	Ala		Ser	Val
		435			_		440				- 4	445			
Ser	Glu	Asn	Phe	Asp	Thr	Ala	Ser	Leu	Gly	Ser	Leu	Gln	Met	Pro	Ser
	450			•		455					460				
Gly	Phe	Met	Leu	Thr	Lys	Asp	Gln	Glu	Arg	Ala	Ile	Lys	Ala	Met	Thr
465 -															
Pro	Glu	Gln	Glu		Thr	Ala	Ser	Leu		Ser	Ser	Val	Thr	Gln	Gly
		_		485		_	_	_	490	_	_		_	495	
Met	GIU	Ser		Tyr	Val	Ser	Pro		GIA	Tyr	Arg	Leu		Ser	Glu
mp ×	~1	ш~~	500	T 033	Ton	~1 m	Tera	505	7707	773 -	7	N 1 -	510	3	.
1111						Gln	_					A1a 525	GIA	Asn	гля
T.e.u						Met							Gln	T.em	Gln.
											540	Lys	OZI	Lea	Gin
Gly						Ala						Val	Lvs	Lvs	Leu
			64. · ·										•	-	560
Gln	Leu	Met	Leu	Arg	Gln	Ala	Asn	Asp	Gln	Leu	Glu	Lys	Thr	Met	Lys
					• •:									575	
Asp	Lys	Gln		Leu	Glu	Asp	Phe		Lys	Gln	Ser	Ser		Asp	Ser
_			580	_				585					590		
Ser	His		Ile	ser	Ala	Leu		Leu	Arg	Ala	Gln		Ser	Glu	Ile
Ton	T 011	595	<i>α</i> 1	T 011	~1 ~	61 2	600	T	C	03	77.	605	3	•	
neu	610	GIU	Giu	Leu	GIII	Gln 615	Gry	neu	Ser	GIII	620	ьуs	Arg	Asp	vai
Gln		Gln	Met	Ala	Val		Met	Gln	Ser	Ara		Gln	Val	Ser	Glu
625				2220	630			0.111	DCI	635	Oru	OIII	Val	261	640
	Leu	Val	Arq	Leu		Lys	qzA	Asn	asp		Leu	Gln	Glv	Lvs	
				645		-			650					655	
Ser	Leu	His	Val	Ser	Leu	Gln	Gln	Ala	Glu	Asp	Phe	Ile	Leu	Pro	Asp
			660					665		_			670		-
Thr	Thr	Glu	Ala	Leu	Arg	Glu	Leu	Val	Leu	Lys	.Tyr	Arg	Glu	Asp	Ile
		675					680					685			
			Arg	Thr	Ala			His	Val	Glu			Leu	Lys	Ala
	690			_	_	695					700				
	тте	ьeu	Phe	Leu			Gln	Ile	Gln		Glu	Gln	Cys	Leu	Lys
705	7	Len	ر. 1 ي	יינים.	710		~ دی	T 011	O3	715	~ 1	7	0	τ	720
GIU	Wall	u⊂u	. G IU	725		มะน	3111	. neu	730		GIU	ASN	Cys	ьуs 735	Glu
				. 4. 3					, 30					133	

TT (J 22/107200

YY *い フフ*/ U92UJ エンエクロランバスサロテン

```
Glu Ile Ala Ser Ile Ser Ser Leu Lys Ala Glu Leu Glu Arg Ile Lys
                    740
        Val Glu Lys Gly Gln Leu Glu Ser Thr Leu Arg Glu Lys Ser Gln Gln
                                 · 760
                                                  765
        Leu Glu Ser Leu Gln Glu Ile Lys Ile Ser Leu Glu Glu Gln Leu Lys
                               775
        Lys Glu Thr Ala Ala Lys Ala Thr Val Glu Gln Leu Met Phe Glu Glu
                  790
                                              Lys Asn Lys Ala Gln Arg Leu Gln Thr Glu Leu Asp Val Ser Glu Gln
        Val Gln Arg Asp Phe Val Lys Leu Ser Gln Thr Leu Gln Val Gln Leu
                    820
                                       825
        Glu Arg Ile Arg Gln Ala Asp Ser Leu Glu Arg Ile Arg Ala Ile Leu
                                 840
        -Asn Asp Thr Lys-Leu Thr Asp Ile Asn Gln Leu Pro Glu Thr
                               855
              <210> 123
              <211> 544
              <212> DNA
              <213> Homo Sapiens
        gggagtggcg tggcgcaggg atggcacaaa agaaatatct tcaagcaaaa ttgacccagt
                                                                           60
         ttttaaggga agacaggatt caactttgga aacctccata tacagatgaa aataaaaaaq
                                                                           120
         ttggtttggc attaaaggac cttgctaagc agtactctga cagactagaa tgctgtgaaa
                                                                           180
         atgaagtaga aaaggtaata gaagaaatac gttgcaaggc aattgagcgt ggaacaggaa
                                                                           240
         atgacaatta tagaacaacg ggaattgcta caatcgaggt gtttttacca ccaagactaa
                                                                           300
        aaaaagatag gaaaaacttg ttggagaccc gattgcacat cactggcaga gaactgaggt
                                                                           360
       accaaaatago tgaaaccttt ggacttcaag aanattatat caaaattgto ataaataaga 👵
                                                                          420
        agcaactacn actagggaaa accettgaag ancaaggegt ggeteacaat gtgaaagega
                                                                          480
   tggtgcttga actaaaacaa tctgaagagg acgcgaggaa aaacttccag ttagaggaag
                                                                          540
agga
                                                                          .544
              <210> 124
               <211> 178
               <212> PRT
               <213> Homo Sapiens
              <400> 124
         Glu Trp Arg Gly Ala Gly Met Ala Gln Lys Lys Tyr Leu Gln Ala Lys
                                           10
         Leu Thr Gln Phe Leu Arg Glu Asp Arg Ile Gln Leu Trp Lys Pro Pro
         Tyr Thr Asp Glu Asn Lys Lys Val Gly Leu Ala Leu Lys Asp Leu Ala
         Lys Gln Tyr Ser Asp Arg Leu Glu Cys Cys Glu Asn Glu Val Glu Lys
         Val Ile Glu Glu Ile Arg Cys Lys Ala Ile Glu Arg Gly Thr Gly Asn
         Asp Asn Tyr Arg Thr Thr Gly Ile Ala Thr Ile Glu Val Phe Leu Pro
         Pro Arg Leu Lys Lys Asp Arg Lys Asn Leu Leu Glu Thr Arg Leu His
```

100 105 110

Ile Thr Gly Arg Glu Leu Arg Ser Lys Ile Ala Glu Thr Phe Gly Leu

```
120
                                               125
Gln Glu Tyr Ile Lys Ile Val Ile Asn Lys Lys Gln Leu Leu Gly Lys
                        135
Thr Leu Glu Gln Gly Val Ala His Asn Val Lys Ala Met Val Leu Glu
                                       155
Leu Lys Gln Ser Glu Glu Asp Ala Arg Lys Asn Phe Gln Leu Glu Glu
                                    170
Glu Glu
      <210> 125
      <211> 1302
      <212> DNA
      <213> Homo Sapiens
      <400> 125
atggaggtgg tggacccgca gcagctgggc atgttcacgg agggcgagct gatgtcggtg
                                                                      60
120
aagcgggcca agctcatcgg caagtacctg atgggggacc tgctggggga aggctcttac
                                                                     180
ggcaaggtga aggaggtgct ggactcggag acgctgtgca ggagggccgt caagatcctc
                                                                     240
aagaagaaga agttgcgaag gatccccaac ggggaggcca acgtgaagaa ggaaattcaa
                                                                     300
ctactgagga ggttacggca caaaaatgtc atccagctgg tggatgtgtt atacaacgaa
                                                                     360
gagaagcaga aaatgtatat ggtgatggag tactgcgtgt gtggcatgca ggaaatgctg
                                                                     420
gacagcgtgc cggagaagcg tttcccagtg tgccaggccc acgggtactt ctgtcagctg
                                                                     480
attgacggcc tggagtacct gcatagccag ggcattgtgc acaaggacat caagccgggg
                                                                     540
aacctgctgc tcaccaccgg tggcaccctc aaaatctccg acctgggcgt ggccgaggca
                                                                     600
ctgcaccegt tegeggegga egacacetge eggaceagee agggeteece ggettteeag
                                                                     660
cegecegaga ttgccaaegg cetggacaee tteteegget teaaggtgga catetggteg
                                                                     720
getggggtea ceetetacaa cateaceaeg ggtetgtace cettegaagg ggacaacate
                                                                     780
tacaagttgt ttgagaacat cgggaagggg agctacgcca tcccgggcga ctgtggcccc
                                                                     840
ccgctctctg acctgctgaa agggatgctt gagtacgaac cggccaagag gttctccatc
                                                                     900
cggcagatec ggcagcacag ctggttccgg aagaaacate ctccggctga agcaccagtg
                                                                     960
cccatcccac cgagcccaga caccaaggac cggtggcgca gcatgactgt ggtgccgtac
                                                                    1020
ttggaggacc tgcacggcgc ggacgaggac gaggacctct tcgacatcga ggatgacatc
                                                                    1080
atctacacte aggaetteae ggtgeeegga eaggteeeag aagaggagge eagteacaat
                                                                    1140
ggacagegee ggggeeteec caaggeegtg tgtatgaacg gcacagagge ggcgcagetg
                                                                    1200
agcaccaaat ccagggcgga gggccgggcc cccaaccctg cccgcaaggc ctgctccgcc
                                                                    1260
agcagcaaga teegeegget gteggeetge aagcagcagt ga
                                                                    1302
     <210> 126
     <211> 433
     <212> PRT
      <213> Homo Sapiens
     <400> 126
Met Glu Val Val Asp Pro Gln Gln Leu Gly Met Phe Thr Glu Gly Glu
                                   10
Leu Met Ser Val Gly Met Asp Thr Phe Ile His Arg Ile Asp Ser Thr
                               25
Glu Val Ile Tyr Gln Pro Arg Arg Lys Arg Ala Lys Leu Ile Gly Lys
                           40
Tyr Leu Met Gly Asp Leu Leu Gly Glu Gly Ser Tyr Gly Lys Val Lys
Glu Val Leu Asp Ser Glu Thr Leu Cys Arg Arg Ala Val Lys Ile Leu
```

ママ い ノノ/ひマムリン

75

Lys Lys Lys Leu Arg Arg Ile Pro Asn Gly Glu Ala Asn Val Lys 85 Lys Glu Ile Gln Leu Leu Arg Arg Leu Arg His Lys Asn Val Ile Gln 105 Leu Val Asp Val Leu Tyr Asn Glu Glu Lys Gln Lys Met Tyr Met Val 120 Met Glu Tyr Cys Val Cys Gly Met Gln Glu Met Leu Asp Ser Val Pro 135 Glu Lys Arg Phe Pro Val Cys Gln Ala His Gly Tyr Phe Cys Gln Leu 150 155 Ile Asp Gly Leu Glu Tyr Leu His Ser Gln Gly Ile Val His Lys Asp 165 170 Ile Lys Pro Gly Asn Leu Leu Thr Thr Gly Gly Thr Leu Lys Ile 185 Ser Asp Leu Gly Val Ala Glu Ala Leu His Pro Phe Ala Ala Asp Asp 200 Thr Cys Arg Thr Ser Gln Gly Ser Pro Ala Phe Gln Pro Pro Glu Ile 215 Ala Asn Gly Leu Asp Thr Phe Ser Gly Phe Lys Val Asp Ile Trp Ser 230 235 Ala Gly Val Thr Leu Tyr Asn Ile Thr Thr Gly Leu Tyr Pro Phe Glu 245 Gly Asp Asn Ile Tyr Lys Leu Phe Glu Asn Ile Gly Lys Gly Ser Tyr 260 265 Ala Ile Pro Gly Asp Cys Gly Pro Pro Leu Ser Asp Leu Leu Lys Gly 280 Met Leu Glu Tyr Glu Pro Ala Lys Arg Phe Ser Ile Arg Gln Ile Arg 1. **295** Gln His Ser Trp Phe Arg Lys Lys His Pro Pro Ala Glu Ala Pro Val Pro Ile Pro Pro Ser Pro Aspa Thr Lys Asp Arg Trp Arg Ser Met Thr 32501210年中央加强企业公司330 11 2000 (2000) 335 Val Val Pro Tyr Leu Glu Asp Leu His Gly Ala Asp Glu Asp Leu Phe Asp Ile Glu Asp Asp Ile Ile Tyr Thr Gln Asp Phe Thr Val 360 Pro Gly Gln Val Pro Glu Glu Glu Ala Ser His Asn Gly Gln Arg Arg 375 Gly Leu Pro Lys Ala Val Cys Met Asn Gly Thr Glu Ala Ala Gln Leu 390 395 Ser Thr Lys Ser Arg Ala Glu Gly Arg Ala Pro Asn Pro Ala Arg Lys 405 410 Ala Cys Ser Ala Ser Ser Lys Ile Arg Arg Leu Ser Ala Cys Lys Gln 420 425 430 Gln

<210> 127 <211> 1488 <212> DNA <213> Homo Sapiens

<400> 127

71 C J/10740J

gaggggggg gcggtgccgg caagatggct gcgcccgaga agatgacgtt tcccgagaaa 60 ccaagccaca aaaagtacag ggccgcctg aagaaggaga aacgaaagaa acgtcggcag 120

```
gaacttgctc gactgagaga ctcaggactc tcacagaagg aggaagagga ggacactttt
                                                                 180
attgaagaac aacaactaga agaagagaag ctattggaaa gagagaggca aagattacat
                                                                 240
qaggaqtggt tgctaagaga gcagaaggca caagaagaat tcagaataaa gaaggaaaaq
                                                                 300
gaagaggegg ctaaaaaacg gcaagaagaa caagagagaa agttaaagga acaatgggaa
                                                                 360
420
qaqqaagctt tgcagaagat gctggatcag gctgaaaatg agttggaaaa tggtaccaca
                                                                 480
tqqcaaaacc cagaaccacc cgtggatttc agagtaatgg agaaqqatcg aqctaattqt
                                                                 540
cccttctaca gtaaaacagg agcttgcaga tttggagata gatgttcacg taaacataat
                                                                 600
ttcccaacat ccagtcctac ccttcttatt aagagcatgt ttacgacgtt tggaatggag
                                                                 660
cagtgcagga gggatgacta tgaccctgac gcaagcctgg agtacagcga ggaagaaacc
                                                                 720
taccaacaqt tcctagactt ctatgaggat gtgttgcccg agttcaagaa cgtqqqqaaa
                                                                 780
gtgattcagt tcaaggtcag ctgcaatttg gaacctcacc tgaggggcaa tgtatatqtt
                                                                 840
cagtaccagt cggaagaaga atgccaagca gccctttctc tgtttaacgg acgatggtat
                                                                 900
gcaggacgac agetgcagtg tgaattetge ceegtgacce ggtggaaaat ggegatttqt
                                                                 960
-ggtttatttg-aaatacaaca--atgtccaaga--ggaaagcact--gcaactttct---tcatgtqttc---
                                                                -1020- ..
agaaatccca acaatgaatt ctgggaagct aatagagaca tctacttgtc tccagatcgq
                                                                 1080
actggctcct cctttgggaa gaactccgaa aggagggaga ggatgggcca ccacgacgac
                                                                 1140
tactacagca ggctgcgggg aaggagaaac cctagtccag accactccta caaaagaaat
                                                                 1200
ggggaatccg agaggaaaag tagtcgtcac agggggaaga aatctcacaa acgcacatca
                                                                 1260
aagagtcggg agaggcacaa ttcacgaagc agaggaagaa atagggaccg cagcagggac
                                                                 1320
cgcagccggg gccggggcag ccggagccgg agccggagcc ggagccgcag gagccgccgc
                                                                 1380
agecggagee aaagtteete taggteeega agtegtggea ggaggaggte gggtaataga
                                                                 1440
```

<210> 128 <211> 482 <212> PRT <213> Homo Sapiens

<400> 128. A CONTROL OF MAN CONTROL OF THE CONTROL

```
Met Ala Ala Pro Glu Lys Met Thr Phe Pro Glu Lys Pro Ser His Lys
               15 1 1 1 2 2 3 mas sina 4 3 10 1 1 2 3 3 3 3 3 5 15
Lys Tyr Arg Ala Ala Leu Lys Lys Glu Lys Arg Lys Lys Arg Gln
                 .25
Glu Leu Ala Arg Leu Arg Asp Ser Gly Leu Ser Gln Lys Glu Glu Glu
Glu Asp Thr Phe Ile Glu Glu Gln Gln Leu Glu Glu Lys Leu Leu
                       55
Glu Arg Glu Arg Gln Arg Leu His Glu Glu Trp Leu Leu Arg Glu Gln
                    70
                                        75
Lys Ala Gln Glu Glu Phe Arg Ile Lys Lys Glu Lys Glu Glu Ala Ala
Lys Lys Arg Gln Glu Glu Gln Glu Arg Lys Leu Lys Glu Gln Trp Glu
                                105
Glu Gln Gln Arg Lys Glu Arg Glu Glu Glu Glu Gln Lys Arg Gln Glu
                            120
Lys Lys Glu Lys Glu Glu Ala Leu Gln Lys Met Leu Asp Gln Ala Glu
                        135
Asn Glu Leu Glu Asn Gly Thr Trp Gln Asn Pro Glu Pro Pro Val
                    150
                                        155
Asp Phe Arg Val Met Glu Lys Asp Arg Ala Asn Cys Pro Phe Tyr Ser
                165
                                    170
Lys Thr Gly Ala Cys Arg Phe Gly Asp Arg Cys Ser Arg Lys His Asn
                                185
Phe Pro Thr Ser Ser Pro Thr Leu Leu Ile Lys Ser Met Phe Thr Thr
```

THE THE PARTY OF T

マヤ ひ フフ/ひきんひろ

I CITOGOGIATOTO

```
200
                                                   205
      Phe Gly Met Glu Gln Cys Arg Arg Asp Asp Tyr Asp Pro Asp Ala Ser
                            215
      Leu Glu Tyr Ser Glu Glu Glu Thr Tyr Gln Gln Phe Leu Asp Phe Tyr
      225
                         230
      Glu Asp Val Leu Pro Glu Phe Lys Asn Val Gly Lys Val Ile Gln Phe
                     245
                                        250
      Lys Val Ser Cys Asn Leu Glu Pro His Leu Arg Gly Asn Val Tyr Val
                                    265
      Gln Tyr Gln Ser Glu Glu Glu Cys Gln Ala Ala Leu Ser Leu Phe Asn
                                280
                                                   285
      Gly Arg Trp Tyr Ala Gly Arg Gln Leu Gln Cys Glu Phe Cys Pro Val
                            295
                                               300
      Thr Arg Trp Lys Met Ala Ile Cys Gly Leu Phe Glu Ile Gln Gln Cys
      305 310
                                        315
      Pro Arg Gly Lys His Cys Asn Phe Leu His Val Phe Arg Asn Pro Asn
                     325
      Asn Glu Phe Trp Glu Ala Asn Arg Asp Ile Tyr Leu Ser Pro Asp Arg
                                    345
      Thr Gly Ser Ser Phe Gly Lys Asn Ser Glu Arg Arg Glu Arg Met Gly
                                360
      His His Asp Asp Tyr Tyr Ser Arg Leu Arg Gly Arg Arg Asn Pro Ser
      -370 ------
                                               380
      Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Ser Ser
                         390
                                           395
      Arg His Arg Gly Lys Lys Ser His Lys Arg Thr Ser Lys Ser Arg Glu
                     405
      Arg His Asn Ser Arg Ser Arg Gly Arg Asn Arg Asp Arg Ser Arg Asp
  (電話的) 数(話さいた) 420
                                   425
                                                       430 - Capath Circle 2
   To Arguser Arg Gly Arg Gly Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg
A Um 17 AA Charles 435 10 Multi-440
                                                   445
                                                        化二氯化二氯甲基苯甲基二甲基二甲基
   Ang Ser Arg Ser Arg Ser Arg Ser Gln Ser Ser Ser Arg Ser Arg Ser Arg
 10 La Tetra Gal 450 at 20 1 1 1 1 1 1 1 1 4 455 1 1
                                               460
      Gly Arg Arg Ser Gly Asn Arg Asp Arg Thr Val Gln Ser Pro Lys
   470
                                            475
                                                            480
      Ser Lys
```

<210> 129

<211> 1663

<212> DNA

<213> Homo Sapiens

<400> 129

aggecetgag ceaacteegg gtgetetget gtgagtgget gaggeeegag atecacacea 60 aggagcagat cctggagcta ctggtgctgg agcagttcct gaccatcctg ccccaggagc 120 tecaggeetg ggtgcaggag cattgceegg agagegetga agaggetgte acteteeteg 180 aagatetgga gegggaaetg gatgageeag gacaceaggt etcaaeteet ecaaaegaae 240 agaaaccggt gtgggagaag atatcctcct caggaactgc aaaggaatcc ccgagcagca 300 tgcagccaca gcccttggag accagtcaca aatacgagtc ttgggggccc ctgtacatcc 360 aagagtotgg tgaggagcag gagttogoto aagatocaag aaaggtooga gattgcagat 420 tgagtaccca gcacgaggaa tcagcagatg agcagaaagg ttctgaagca gaggggctca 480 aaggggatat aatttetgtg attategeea ataaaeetga ggeeagetta gagaggeagt 540 gcgtaaacct tgaaaatgaa aaaggaacaa aaccccctct tcaagaggca ggctccaaga 600 aaggtagaga atcagttcct actaaaccta ccccaggaga gagacgttat atatgtgctg 660

```
aatgtqqcaa aqcctttaqt aatagctcaa atctcaccaa acacaqqaga acacacactq
                                                                        720
qqqaqaaacc ttacqtqtqc accaagtgtg ggaaagcttt caqccacaqc tcaaacctca
                                                                        780
ccctccacta cagaacacac ttggtggacc ggccctatga ctgtaagtgt ggaaaagctt
                                                                        840
ttgggcagag ctcagacctt cttaaacatc agagaatgca cacagaagag gcgccatatc
                                                                       900
agtgcaaaga ttgtggcaag gctttcagcg ggaaaggcag cctcattcgt cactatcgga
                                                                        960
tccacactgg ggagaagcct tatcagtgta acgaatgtgg gaagagcttc agtcagcatg
                                                                      1020
cgggcctcag ctcccaccag agactccaca ccggagagaa gccatataag tgtaaggagt
                                                                       1080
gtgggaaage cttcaaccac agetccaact tcaataaaca ccacagaate cacacegggg
                                                                      1140
aaaagcccta ctggtgtcat cactgtggaa agaccttctg tagcaagtcc aatctttcca
                                                                       1200
aacatcagcg agtccacact ggagagggag aagcaccgta actttcaagc gctcctqttq
                                                                       1260
ttgtcgttgt tttaaacttt agaatctgaa aaccagaaag aagtcttgtc attgcaqcaq
                                                                       1320
 categattee ggtgatagag tttgtateac teaacateag gggatgeetg aggagtgega
                                                                       1380
gctccacagc aacatggcag gcaggaggtc ctcagaaggt gtcaggaggt tccacactcq
                                                                       1440
ccagttcact ggagcagagt cccttcgcca cacttagggt cccagtaagc catgccaqca
                                                                       1500
-ttaccttttg-cgtagttaaa-cagacgtgta-tccagtctag-ttaaggaaga-aacattaaga----1560
 ttgtttaatt tttaacatat attcaagaat tttaatttgt aaagaattga gccacattga
                                                                       1620
 acacaattga atgagattca gaataaactt ataacatctt aaa
                                                                       1663
```

<210> 130 <211> 412 <212> PRT

**** /// V7#UU

<213> Homo Sapiens

<400> 130

```
Ala Leu Ser Gln Leu Arg Val Leu Cys Cys Glu Trp Leu Arg Pro Glu
               5
Ile His Thr Lys Glu Gln Ile Leu Glu Leu Leu Val Leu Glu Gln Phe
        20
                               25
                                   .
Leu Thr Ile Leu Pro Gln Glu Leu Gln Ala Trp Val Gln Glu His Cys
     35 40
                                              45
Pro Glu Ser Ala Glu Glu Ala Val Thr Leu Leu Glu Asp Leu Glu Arg
    50 (1) (2) (1) (2) (3) (4) (4) (5) (6)
Glu Leu Asp Glu Pro Gly His Gln Val Ser Thr Pro Pro Asn Glu Gln
                                      75
                   70
Lys Pro Val Trp Glu Lys Ile Ser Ser Gly Thr Ala Lys Glu Ser
Pro Ser Ser Met Gln Pro Gln Pro Leu Glu Thr Ser His Lys Tyr Glu
                               105
Ser Trp Gly Pro Leu Tyr Ile Gln Glu Ser Gly Glu Glu Gln Glu Phe
                           120
Ala Gln Asp Pro Arg Lys Val Arg Asp Cys Arg Leu Ser Thr Gln His
                       135
Glu Glu Ser Ala Asp Glu Gln Lys Gly Ser Glu Ala Glu Gly Leu Lys
                   150
                                       155
Gly Asp Ile Ile Ser Val Ile Ile Ala Asn Lys Pro Glu Ala Ser Leu
               165
                                   170
Glu Arg Gln Cys Val Asn Leu Glu Asn Glu Lys Gly Thr Lys Pro Pro
                               185
Leu Gln Glu Ala Gly Ser Lys Lys Gly Arg Glu Ser Val Pro Thr Lys
                           200
                                             . 205
Pro Thr Pro Gly Glu Arg Arg Tyr Ile Cys Ala Glu Cys Gly Lys Ala
                       215
                                           220
Phe Ser Asn Ser Ser Asn Leu Thr Lys His Arg Arg Thr His Thr Gly
                    230
                                       235
Glu Lys Pro Tyr Val Cys Thr Lys Cys Gly Lys Ala Phe Ser His Ser
```

5.30

and the second

```
250
                                                     255
               245
Ser Asn Leu Thr Leu His Tyr Arg Thr His Leu Val Asp Arg Pro Tyr
                              265
Asp Cys Lys Cys Gly Lys Ala Phe Gly Gln Ser Ser Asp Leu Leu Lys
                          280
His Gln Arg Met His Thr Glu Glu Ala Pro Tyr Gln Cys Lys Asp Cys
                      295
Gly Lys Ala Phe Ser Gly Lys Gly Ser Leu Ile Arg His Tyr Arg Ile
                                    315
                   310
His Thr Gly Glu Lys Pro Tyr Gln Cys Asn Glu Cys Gly Lys Ser Phe
                                  330
Ser Gln His Ala Gly Leu Ser Ser His Gln Arg Leu His Thr Gly Glu
           340
                              345
Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Ala Phe Asn His Ser Ser
   355 360 365
Asn Phe Asn Lys His His Arg Ile His Thr Gly Glu Lys Pro Tyr Trp
                      375
                                          380
Cys His His Cys Gly Lys Thr Phe Cys Ser Lys Ser Asn Leu Ser Lys
                   390
                                      395
385
His Gln Arg Val His Thr Gly Glu Gly Glu Ala Pro
<211> 724
      <212> DNA
      <213> Homo Sapiens
      <400> 131
ggagaatgaa aagcagaaag tggcagagct gtattctatc cataactctg gagacaaatc
                                                                   60 .:
tgatattcag gacctcctgg agagtgtcag gctggacaaa gaaaaagcag agactttggc
                                                                 . 120
tagtagettg caggaagate tggeteatac cegaaatgat gecaategat tacaggatge
                                                                   180
cattgctaag gtagaggatg aataccgagc cttccaagaa gaagctaaga aacaaattga
                                                                   240
agatttgaat atgacgttag aaaaattaag atcagacctg gatgaaaaag aaacagaaag
                                                                   300
qaqtqacatg aaagaaacca tctttgaact tgaagatgaa gtagaacaac atcgtgctgt
                                                                   360
gaaacttcat gacaacctca ttatttctga tctagagaat acagttaaaa aactccagga .
                                                                   420
ccaaaagcac gacatggaaa gagaaataaa gacactccac agaagacttc gggaagaatc
                                                                   480
tgcggaatgg cggcagtttc aggctgatct ccagactgca gtagtcattg caaatgacat
                                                                   540
taaatctgaa gcccaagagg agattggtga tctaaagcgc cgggtacatg aggctcaaga
                                                                   600
aaaaaatgag aaactcacaa aagaattgga ggaaataagt ccgccaagcc agaagangac
                                                                   660
gangeeggta ttecantaca tgnatgeeeg tgagagagaa tttggeagge cttaaggeag
                                                                   720
                                                                   724
 ggaa
       <210> 132
       <211> 218
       <212> PRT
       <213> Homo Sapiens
       <400> 132
 Glu Asn Glu Lys Gln Lys Val Ala Glu Leu Tyr Ser Ile His Asn Ser
 Gly Asp Lys Ser Asp Ile Gln Asp Leu Leu Glu Ser Val Arg Leu Asp
            20
                               25
 Lys Glu Lys Ala Glu Thr Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala
                            40
 His Thr Arg Asn Asp Ala Asn Arg Leu Gln Asp Ala Ile Ala Lys Val
```

```
55
           Glu Asp Glu Tyr Arg Ala Phe Gln Glu Glu Ala Lys Lys Gln Ile Glu
                               70
                                                  . 75
           Asp Leu Asn Met Thr Leu Glu Lys Leu Arg Ser Asp Leu Asp Glu Lys
                           85
                                               90
           Glu Thr Glu Arg Ser Asp Met Lys Glu Thr Ile Phe Glu Leu Glu Asp
                                           105
           Glu Val Glu Gln His Arg Ala Val Lys Leu His Asp Asn Leu Ile Ile
                                       120
                                                          125
           ser Asp Leu Glu Asn Thr Val Lys Lys Leu Gln Asp Gln Lys His Asp
                                  135
           Met Glu Arg Glu Ile Lys Thr Leu His Arg Arg Leu Arg Glu Glu Ser
                              150
                                                  155
           Ala Glu Trp Arg Gln Phe Gln Ala Asp Leu Gln Thr Ala Val Val Ile
                        165
                                              170
           Ala Asn Asp Ile Lys Ser Glu Ala Gln Glu Glu Ile Gly Asp Leu Lys
                       180
                                          185
           Arg Arg Val His Glu Ala Gln Glu Lys Asn Glu Lys Leu Thr Lys Glu
                                      200
           Leu Glu Glu Ile Ser Pro Pro Ser Gln Lys
               210
                                  215
        <210> 133
                <211> 719
                 <212> DNA
                 <213> Homo Sapiens
                <400> 133
- 1900 gagaactaca gagetgggtg eggggeeaac ggeeagaaag tggegaggag geagtgaege a 1900 s
       tggtggaggg tttgcagaaa caacccagga gaccaaggcg gtgactgtcc atgttcacgg - 4120 st
       ccaggaagte ctgtcagagg agacggtgca tttaggagcg gagcctgagt cacctaatga 180 8
 gctgcaggat cctgtgcaaa gctcgacccc cgagcagtct cctgaggaaa ccacacagag
                                                                            240
       coccagatotg ggggcaccgg cagagcagcg tocacaccag gaagaggagc tocagaccct and 300: 10
          gcaggagage gaggteccag tgeccgagga cecagaeett cetgcagaga ggagetetgg
          agactcagag atggttgctc ttcttactgc tctgtcacag ggactggtaa cgttcaagga
                                                                               3360 ...
          tgtggccgta tgcttttccc aggaccagtg gagtgatctg gacccaacac agaaagagtt
                                                                               420
          ctatggagaa tatgtcttgg aagaagactg tggaattgtt gtctctctgt catttccaat
          ccccagacct gatgagatct cccaggttag agaggaagag cccttgggtc ccagatatcc
                                                                                540.
                                                                                600
          aagageetna ggagaeteaa gageeagaaa teetgagttt taeetacaca ggagatagga
          gtnaagatga aggaaaatgt ctggagccag gaagaatctg agtttggagg atataccca
                                                                                660
                                                                                719
                <210> 134
                <211> 217
                <212> PRT
                <213> Homo Sapiens
                <400> 134
          Arg Thr Thr Glu Leu Gly Ala Gly Pro Thr Ala Arg Lys Trp Arg Gly
          Gly Ser Asp Ala Gly Gly Gly Phe Ala Glu Thr Thr Gln Glu Thr Lys
                                          25
          Ala Val Thr Val His Val His Gly Gln Glu Val Leu Ser Glu Glu Thr
                                      40
          Val His Leu Gly Ala Glu Pro Glu Ser Pro Asn Glu Leu Gln Asp Pro
                                  55
```

₹₹₩ 77/09403 1 ₩ 1/ U070/14U/ 7

```
Val Gln Ser Ser Thr Pro Glu Gln Ser Pro Glu Glu Thr Thr Gln Ser
                                                        70
                                                                                             75
                   Pro Asp Leu Gly Ala Pro Ala Glu Gln Arg Pro His Gln Glu Glu
                                                                                      90
                   Leu Gln Thr Leu Gln Glu Ser Glu Val Pro Val Pro Glu Asp Pro Asp
                                                                               105
                   Leu Pro Ala Glu Arg Ser Ser Gly Asp Ser Glu Met Val Ala Leu Leu
                                                                       120
                    Thr Ala Leu Ser Gln Gly Leu Val Thr Phe Lys Asp Val Ala Val Cys
                                                                135
                    Phe Ser Gln Asp Gln Trp Ser Asp Leu Asp Pro Thr Gln Lys Glu Phe
                                                   150
                                                                                             155
                    Tyr Gly Glu Tyr Val Leu Glu Glu Asp Cys Gly Ile Val Val Ser Leu
                                                 165
                                                                                      170
                                                                                                                          175
                    Ser Phe Pro Ile Pro Arg Pro Asp Glu Ile Ser Gln Val Arg Glu Glu
                                                                               185
                    Glu Pro Leu Gly Pro Arg Tyr Pro Arg Ala Gly Asp Ser Arg Ala Arg
                                                                        200
                    Asn Pro Glu Phe Tyr Leu His Arg Arg
                           210
                                                                215
                               <210> 135
                         - <211> -1027 ---
                                <212> DNA
                                <213> Homo Sapiens
                                <400> 135
                    gegagggega gggegaggeg gtgeteatgg aggaggaeet gateeageag ageetggaeg
 cological granted granted aggreet aggreet granted aggreet granted aggreet granted aggreet aggreet aggreet aggreet granted aggreet aggreet granted aggreet gran
                ng aggteaeggg agaegeeage gagagegeeg aggaeatettheetteeggeggngeeaaggagg 📉 🖞 240 🖽 🗯 🔩 😘 👵
3,00 (34.53)
               tgtgggccgakcaagtaccgg ccacgcaagc cgcgcttcttkcaaccgcgtgkcacacgggct in 360 kg/kk/kk/kk/kk/
                tcgagtggaa caagtacaac cagacgcact acgactttga caacccaccg cccaagatcg 420
                     tgcagggata caagttcaac atcttctacc ccgacctcat cgacaagcgc tccacgcccg
                                                                                                                                                      480
                     aqtacttect qqaqqeetge geegacaaca aqqattteqe cateetgege tteaeqeqqq
                                                                                                                                                      540
                     gccgcctacg aggacatcgc tttcaagatc gtcaaccgcg agtgggaata ctngcaccgc
                                                                                                                                                      600
                     cacggettee getgecagtt tgccaacgge attttccane tgngetttca ettcaagege
                                                                                                                                                      660
                     tneegetate ggeggtgaeg geeetgggga aeggeaggee aggagggeeg agggeeacae
                                                                                                                                                      720
                     gggtgccaca gcccaggtcg gagtggccca gccggcaggc ttgtttttca gcatccgacg
                                                                                                                                                      780
                     ggaacatete caacagaage aaaacggaaa gtgcctcccg gacccccaga gggccaccca
                                                                                                                                                      840
                     aceteaceag teaceageee cagaceacee acageeeete ecagacacee egecteatet
                                                                                                                                                      900
                     ggaaatagtt ccgtttgttt ctctaaaaag acttgtaggt gggaaaaaaa atcttttggt
                                                                                                                                                      960
                     ctcatggaat tggcctattg gcaagatcgc atgtttttt aataaacgtt gtattttaga
                                                                                                                                                   1020
                      ataaaaa
                                                                                                                                                     1027
                                 <210> 136
                                 <211> 299
                                 <212> PRT
                                 <213> Homo Sapiens
                                 <400> 136
                      Glu Gly Glu Gly Glu Ala Val Leu Met Glu Glu Asp Leu Ile Gln Gln
```

-100-

Ser Leu Asp Asp Tyr Asp Ala Gly Arg Tyr Ser Pro Arg Leu Leu Thr

.5. ...

11 U フフ/ひやんひつ

よしよ/しロフロ/エマロ/ 2

```
Ala His Glu Leu Pro Leu Asp Ala His Val Leu Glu Pro Asp Glu Asp
  Leu Gln Arg Leu Gln Leu Ser Arg Gln Gln Leu Gln Val Thr Gly Asp
                                                55
 Ala Ser Glu Ser Ala Glu Asp Ile Phe Phe Arg Arg Ala Lys Glu Gly
                                        70
                                                                               75
 Met Gly Gln Asp Glu Ala Gln Phe Ser Val Glu Met Pro Leu Thr Gly
                                85
                                                                        90
 Lys Ala Tyr Leu Trp Ala Asp Lys Tyr Arg Pro Arg Lys Pro Arg Phe
                         100
                                                                105
                                                                                                      110
 Phe Asn Arg Val His Thr Gly Phe Glu Trp Asn Lys Tyr Asn Gln Thr
                                                        120
 His Tyr Asp Phe Asp Asn Pro Pro Pro Lys Ile Val Gln Gly Tyr Lys
                                                135
                                                                                       140
 Phe Asn Ile Phe Tyr Pro Asp Leu Ile Asp Lys Arg Ser Thr Pro Glu
 145
                                                                               155
 Tyr Phe Leu Glu Ala Cys Ala Asp Asn Lys Asp Phe Ala Ile Leu Arg
                                165
                                                                       170
 Phe Thr Arg Gly Arg Leu Arg Gly His Arg Phe Gln Asp Arg Gln Pro
                        180
 Arg Val Gly Ile Leu Ala Pro Pro Arg Leu Pro Leu Pro Val Cys Gln
                195
 Arg His Phe Pro Leu Ser Leu Gln Ala Leu Pro Leu Ser Ala Val Thr
                                               215
 Ala Leu Gly Asn Gly Arg Pro Gly Gly Pro Arg Ala Thr Arg Val Pro
 225
                                                                               235
 Gln Pro Arg Ser Glu Trp Pro Ser Arg Gln Ala Cys Phe Ser Ala Ser
                                245
                                         Chapter of 1250 to high
 Asp Gly Asn Ile Ser Asn Arg Ser Lys Thr Glu Ser Ala Ser Arg Thr
                                         and the graphy 265 departs on \epsilon_{\rm p} and \epsilon_{\rm p} 270 and \epsilon_{\rm p}
 Pro Arg Gly Pro Pro Asn Leu Thr SeroHis Gln Pro Gln Thr Thr His
                275
                                              280 mg - 19 mg
                                                                                              285
 Ser Pro Ser Gln Thr Pro Arg Leu Ile Trp Lys
         290
                                                        295
            <210> 137
            <211> 766
            <212> DNA
            <213> Homo Sapiens
            <400> 137
caaaggttta cacagtaaac aatgtgaatg tgatcaccaa aatacgcaca gaacatctga
                                                                                                                                          60
ccgaggagga aaaaaagaga tataaagaca ggaacccgct ggaatctttg ctgggaactg
                                                                                                                                        120
tggaacacca atttggtgca caaggggacc tcaccacgga atgtgctact gcaaacaacc
                                                                                                                                         180
ccacagccat cacgcctgat gagtacttca atgaagagtt tgatctgaaa gacagggaca
                                                                                                                                         240
ttggaaggcc gaaagagctg acgattagaa cacagaagtt taaagcaatg ttgtggatgt
                                                                                                                                         300
gtgaagagtt teeeetetet etggtggage aggteattee cateattgae etaatggete
gaacgagtgc tcattttgca agactgagag atttcatcaa attggaattc ccacctggat
                                                                                                                                         360
                                                                                                                                         420
ttcctgtcaa aatagcttcc cacatcacaa actttgaggt tgatcaatct gtgtttgaaa
ttcccgaatc ttactatgtt caagacaatg gcagaaatgt gcatttgcaa gatgaagatt
                                                                                                                                         480
acgagataat gcagtttgcc atccagcaaa gtctgctgga gtccagcagg agccaggaac
                                                                                                                                         540
tttcaggacc agcttcgaat ggagggatca gccagacaaa cacctatgac gcccagtatg
                                                                                                                                         600
                                                                                                                                         660
agagggecat neaggagage ettetaceag cacagaaage etgtgeecee agegeeeetg
                                                                                                                                         720
agcgagacna gccgttttga taatggactt gcagctaagc catgga
                                                                                                                                         766
```

71 C //IUTAUJ A C X I DIG/UI X TU I /

<210> 138 <211> 243 <212> PRT <213> Homo Sapiens

<400> 138 Lys Val Tyr Thr Val Asn Asn Val Asn Val Ile Thr Lys Ile Arg Thr 5 10 Glu His Leu Thr Glu Glu Glu Lys Lys Arg Tyr Lys Asp Arg Asn Pro . 25 Leu Glu Ser Leu Leu Gly Thr Val Glu His Gln Phe Gly Ala Gln Gly 40 Asp Leu Thr Thr Glu Cys Ala Thr Ala Asn Asn Pro Thr Ala Ile Thr 55 60 Pro Asp Glu Tyr Phe Asn Glu Glu Phe Asp Leu Lys Asp Arg Asp Ile 70 75 Gly Arg Pro Lys Glu Leu Thr Ile Arg Thr Gln Lys Phe Lys Ala Met 90 Leu Trp Met Cys Glu Glu Phe Pro Leu Ser Leu Val Glu Gln Val Ile 100 105 Pro Ile Ile Asp Leu Met Ala Arg Thr Ser Ala His Phe Ala Arg Leu 120 Arg Asp Phe Ile Lys Leu Glu Phe Pro Pro Gly Phe Pro Val Lys Ile 135 Ala Ser His Ile Thr Asn Phe Glu Val Asp Gln Ser Val Phe Glu Ile 150 155 Pro Glu Ser Tyr Tyr Val Gln Asp Asn Gly Arg Asn Val His Leu Gln 170 175 Asp Glu Asp Tyr Glu Ile Met Gln Phe Ala Ile Gln Gln Ser Leu Leu 190 (185) (186) (180) (186) (186) Glu Ser Ser Arg Ser Gln Glu Leu Ser Gly Pro Ala Ser Asn Gly Gly 10.0 10.0 195 April 195 April 196 Ap Ile Ser Gln Thr Asn Thr Tyr Asp Ala Gln Tyr Glu Arg Ala Gln Glu 210 215 Ser Leu Leu Pro Ala Gln Lys Ala Cys Ala Pro Ser Ala Pro Glu Arg . . 225 230 235 240 Asp Pro Phe

Contract MANAGE CONTRACTOR

and the state of t

Control of the State Section 1999

<210> 139 <211> 3060 <212> DNA <213> Homo Sapiens

<400> 139

ccgggcggga gtgcggcgag agccggctgg ctgagcttag cgtccgagga ggcggcggcg 60 gcggcggcgg cagcggcggc ggcggggctg tggggcggtg cggaagcgag aggcgaggag 120 cgcgcgggcc gtggccagag tctggcggcg gcctggcgga gcggagagca gcgcccgcgc ctcgccgtgc ggaggagccc cgcacacaat agcggcgcgc gcagcccgcg cccttccccc 240 eggegegeee egeeeegege geegagegee eegeteegee teacetgeea eeagggagtg 300 ggcgggcatt gttcgccgcc gccgccgccg cgcggggcca tgggggccgc ccggcgcccg 360 gggccgggcc tggcgaggcc gccgcgccgc cgctgagacg ggccccgcgc gcagcccggc 420 ggcgcaggta aggccggccg cgccatggtg gacccggtgg gcttcgcgga ggcgtggaag gcgcagttcc cggactcaga gcccccgcgc atggagctgc gctcagtggg cgacatcgag540 caggagetgg agegetgeaa ggeetecatt eggegeetgg ageaggaggt gaaccaggag

```
cgcttccgca tgatctacct gcagacgttg ctggccaagg aaaagaagag ctatgaccgg
                                                                                 660
          cagogatggg getteeggeg egeggegeag geceeegaeg gegeeteega geeeegageg
                                                                                 720
          teegegtege geeegeagee agegeeegee gaeggageeg accegeegee egeegaggag
                                                                                 780
          cccqaqqccc ggcccgacgg cgagggttct ccgggtaagg ccaggcccgg gaccgcccqc
                                                                                 840
          aggcccgggg cagccgcgtc gggggaacgg gacgaccggg gaccccccgc cagcgtggcg
                                                                                 900
          qcqctcaggt ccaacttega gcggatccgc aagggccatg gccagcccgg ggcggacgcc
                                                                                 960
          gagaagccct tctacgtgaa cgtcgagttt caccacgagc gcggcctggt gaaggtcaac
                                                                                1020
          gacaaaqagg tgtcggaccg catcagctcc ctgggcagcc aggccatgca gatggagcgc
                                                                                1080
          aaaaaqtccc agcacggcgc gggctcgagc gtgggggatg catccaggcc cccttaccqq
                                                                                1140
          ggacgetect eggagageag etgeggegte gaeggegaet aegaggaege egagttgaae
                                                                                1200
          coccepttcc tgaaggacaa cotgatogac gocaatggcg gtagcaggcc coottggccg
                                                                                1260
          cccctqqaqt accagcccta ccagagcatc tacgtcgggg gcatgatgga aggggagqqc
                                                                                1320
          aagggeeege teetgegeag eeagageaee tetgageagg agaagegeet tacetggeee
                                                                                1380
          egeaggteet actececeg gagttttgag gattgeggag geggetatae eeeggaetge
                                                                                1440
          agetecaatg-agaaceteae-etecagegag-gaggaettet-eetetggeea-gteeageege-
                                                                                1500
          gtgtccccaa gcccaccac ctaccgcatg ttccgggaca aaagccgctc tccctcgcag
                                                                                1560
          aactegeaac agteettega cageageagt ecceccaege egeagtgeea taageggeae
                                                                                1620
          concactore continued atechaoge accateging genteenea queenquean
                                                                                1680
          atctggccca acgatggcga gggcgccttc catggagacg cagatggctc gttcggaaca
                                                                                1740
           ccacctggat acggctgcgc tgcagaccgg gcagaggagc agcgccggca ccaagatggg
                                                                                1800
           ctqccctaca ttqatgactc gccctcctca tcgccccacc tcagcagcaa gggcaqqqqc
                                                                                1860
           agcogggatg cgctggtctc gggagccctg gagtccacta aagcgagtga gctggacttg
                                                                                1920
           gaaaagggct- tggagatgag -aaaatgggtc- ctgtcgggaa -tcctggctag--cgaggagact--- - -1980
           tacctgagcc acctggaggc actgctgctg cccatgaagc ctttgaaagc cgctgccacc
                                                                                2040
           acctctcage eggtgetgae gagtcageag ategagaeca tettetteaa agtgeetgag
                                                                                2100
           ctctacqaqa tccacaaqqa qttctatqat gggctcttcc cccgcqtqca qcaqtqqaqc
                                                                                2160
           caccagcage gggtgggega cetettecag aagetggeea geeagetggg tgtgtacegg
                                                                                2220
           gccttcgtgg acaactacgg agttgccatg gaaatggctg agaagtgctg tcaggccaat
                                                                                2280
gctcagtttg cagaaatctc cgagaacctg agagccagaa gcaacaaaga tgccaaggat 👙 2340 👑
          ccaacgacca agaactotot ggaaactotg ototacaago otgtggaccg tgtgacgagg day2400 december alla unit
           ageacgetgg tectecatga ettgetgaag cacacteetg ecagecacec tgaccacee
                                                                               2460
The transfer of the transfer acgreeated catetoacag aactteetgt coageateaa tgaggagate of 2520 pg and the
           acaccccgac ggcagtccat gacggtgaag aagggagagc accggcagct gctgaaggac * + 2580 p. * qtt dar.
           agetteatgg tggagetggt ggagggggee egeaagetge geeaegtett eetgtteaee
                                                                               .. 2640
           qaqctqcttc tctgcaccaa gctcaagaag cagagcggag gcaaaacgca gcagtatqac
                                                                               2700
           tgcaaatggt acattccgct cacggatctc agcttccaga tggtggatga actggaggca
                                                                                2760
           gtgcccaaca tccccctggt gcccgatgag gagctggacg ctttgaagat caagatctcc
                                                                                2820
           cagatcaaga gtgacatcca gagagagaag agggcgaaca agggcagcaa ggctacggag
                                                                                2880
           aggetgaaga agaagetgte ggageaggag teactgetge tgettatgte teccageatg
                                                                                2940
           gccttcaggg tgcacagccg caacggcaag agttacacgt tcctgatctc ctctgactat
                                                                                3000
           gagcgtgcag agtggaggga gaacatccgg gagcagcaga agaagtgttt cagaagcttc
                                                                                3060
```

<210> 140 <211> 872 <212> PRT

<213> Homo Sapiens

was policy for

<400> 140

Met Val Asp Pro Val Gly Phe Ala Glu Ala Trp Lys Ala Gln Phe Pro . 10 Asp Ser Glu Pro Pro Arg Met Glu Leu Arg Ser Val Gly Asp Ile Glu 20 25 Gln Glu Leu Glu Arg Cys Lys Ala Ser Ile Arg Arg Leu Glu Glu Glu 35.... 40 45 Val Asn Gln Glu Arg Phe Arg Met Ile Tyr Leu Gln Thr Leu Leu Ala ¥¥₩ 77/U94U3 A €A/UU/U/A9U/

		50.					22					טס				
	Lys 65	Glu	Lys	Lys	Ser	Tyr 70	Asp	Arg	Gln	Arg	Trp 75	Gly	Phe	Arg	Arg	Ala 80
		Gln	Ala		-		Ala	Ser	Glu			Ala	Ser	Ala [·]	Ser	
	Pro	Gln	Pro		85 Pro	Ala	Asp	Gly	Ala	90 Asp	Pro	Pro	Pro		95 Glu	Glu
				100	_		.~7	~ 1	105	•	.	~ 7:		110		
	Pro	Glu	A1a 115	Arg	Pro	Asp	GTÅ	120	GTA	ser	Pro	GIY	Lys 125	Ala"	Arg	Pro
·	Gly	Thr 130	Ala	Arg	Arg	Pro	Gly 135	Ala	Ala	Ala	Ser	Gly 140	Glu	Arg	Asp	Asp
	Arg 145		Pro	Pro	Ala	Ser 150	Val	Ala	Ala	Leu	Arg 155	Ser	Asn	Phe	Glu	Arg 160
		Arg	Lys			Gly					Asp				Pro	Phe
The state of the s	Three	3703	700												175 Val	
	-			180					185					190		
	Asp	Lys	Glu 195	Val	Ser	Asp	Arg	11e 200	Ser	Ser	Leu	Gly	Ser 205	Gln	Ala	Met
	Gln	Met 210	Glu	Arg	Lys	Lys	Ser 215	Gln	His	_	Ala	Gly 220	Ser	Ser	Val	Gly
		Ala													Ser	
	Gly	Val	Asp	Gly	Asp 245	Tyr	Glu	Asp	Ala	Glu 250	Leu	Asn	Pro	Arg	Phe 255	Leu
•	Lys	Asp	Asn	Leu 260	Ile	Asp	Ala	Asn	Gly 265	_		Arg	Pro	Pro 270	Trp	Pro
	Pro	Leu	Glu 275	Tyr	Gln		-	•		Ile car	_			_	Met	Met
	Glu	Gly 290		Gly	Lys	Gly	Pro	Leu	Leu		Ser	Gln	Ser	Thr	Ser	Glu
	Gln		Lvs	Arq	Leu										Arg	Ser
e grande de la companya de la compa	305		-	3					-	_		-			4 35 3	
	Phe	Glu	Asp	Cys	Gly 325		Gly	Tyr		Pro	Asp	Cys		Ser	Asn	
	Asn	Leu	Thr	Ser 340		Glu				Ser					Ser	Arg
	Val	Ser		Ser	Pro	Thr	Thr		Arg		Phe	Arg		Lys	Ser	Arg
	Ser				Asn	Ser				Phe	Asp				Pro	Pro
	mla aa	370		G	T7.2 ~	T	375		7			380		**- 1	77. I	0
	385		GIII	Cys	HIS	390		HIS	Arg	HIS	395		vai	vaı	Val	400
·			Thr	Ile		Gly		Arg	Lys		Gly		ılle	Trp	Pro	
	Asp	Gly	Glu				His	Gly				Gly	/ Ser		415 Gly	Thr
	Pro) Pro	Gly	420 Tyr		. Cys	Ala	Ala	425 Asp		Ala	Glu	ı Glu	430 Gln	Arg	Arg
	His	. Gln	435 Asp		· Leu	ı Pro	. Tyr	440 : Ile) Aso	Ser	Pro	445 Ser		Ser	Pro
		450		1			455		- 12	- 2		460				
	His 469		. Ser	Ser	Lys	Gly 470		g Gl	/ Ser	Arg	Asp 475		a Let	ı Val	. Ser	Gly 480
			ı Glu	ı Ser	Thr 485	Lys		. Ser	Glı	Leu 490	Asp		ı Glı	ı Lys	Gly 495	Leu

```
Glu Met Arg Lys Trp Val Leu Ser Gly Ile Leu Ala Ser Glu Glu Thr
                              505
Tyr Leu Ser His Leu Glu Ala Leu Leu Leu Pro Met Lys Pro Leu Lys
                          520
Ala Ala Ala Thr Thr Ser Gln Pro Val Leu Thr Ser Gln Gln Ile Glu
                      535
                                         540
Thr Ile Phe Phe Lys Val Pro Glu Leu Tyr Glu Ile His Lys Glu Phe
                          555
                  550
Tyr Asp Gly Leu Phe Pro Arg Val Gln Gln Trp Ser His Gln Gln Arg
               565
                               570
Val Gly Asp Leu Phe Gln Lys Leu Ala Ser Gln Leu Gly Val Tyr Arg
           580
                              585
Ala Phe Val Asp Asn Tyr Gly Val Ala Met Glu Met Ala Glu Lys Cys
                          600
Cys Gln Ala Asn Ala Gln Phe Ala Glu Ile Ser Glu Asn Leu Arg Ala
                      615
                                         620
Arg Ser Asn Lys Asp Ala Lys Asp Pro Thr Thr Lys Asn Ser Leu Glu
                  630
                                     635
Thr Leu Leu Tyr Lys Pro Val Asp Arg Val Thr Arg Ser Thr Leu Val
            645
                                 650
Leu His Asp Leu Leu Lys His Thr Pro Ala Ser His Pro Asp His Pro
                              665
Leu Leu Gln-Asp Ala Leu Arg Ile Ser Gln Asn Phe Leu Ser Ser Ile
                         680
Asn Glu Glu Ile Thr Pro Arg Arg Gln Ser Met Thr Val Lys Lys Gly
                      695
                                         700
Glu His Arg Gln Leu Leu Lys Asp Ser Phe Met Val Glu Leu Val Glu
705 710
                                     715
Gly Ala Arg Lys Leu Arg His Val Phe Leu Phe Thr Glu Leu Leu
0.00 0.00 data 18.00 Every 7.2.5 (18.00 data 18.00 Fig. 730 Fig. 735
Cys Thr Lys Leu Lys Lys Gln Ser Gly Gly Lys Thr Gln Gln Tyr Asp
  Cys Lys Trp Tyr Ile Pro Leu Thr Asp Leu Ser Phe Gln Met Val Asp
       7.55 760
Glu Leu Glu Ala Val Pro Asn Ile Pro Leu Val Pro Asp Glu Glu Leu
                      775
Asp Ala Leu Lys Ile Lys Ile Ser Gln Ile Lys Ser Asp Ile Gln Arg
                  790
                                     795
Glu Lys Arg Ala Asn Lys Gly Ser Lys Ala Thr Glu Arg Leu Lys Lys
              805
                                 810
Lys Leu Ser Glu Gln Glu Ser Leu Leu Leu Met Ser Pro Ser Met
           820
                              825
Ala Phe Arg Val His Ser Arg Asn Gly Lys Ser Tyr Thr Phe Leu Ile
                         840
                                             845
Ser Ser Asp Tyr Glu Arg Ala Glu Trp Arg Glu Asn Ile Arg Glu Gln
                      855
Gln Lys Lys Cys Phe Arg Ser Phe
                  870
     <210> 141
     <211> 691
```

of the way hadamen.

The Specific Control of the State of the Sta

LAD BY MIRE A

<212> DNA

ママ 🍑 ツノ/ひつよいご

<213> Homo Sapiens

<400> 141

```
gacccctcac actcacctag ccaccatgga catcgccatc caccacccct ggatccgccg
                                                                     60
ccccttcttt cctttccact cccccagccg cctctttgac cagttcttcg gagagcacct
                                                                    120
gttggagtct gatcttttcc cgacgtctac ttccctgagt cccttctacc ttcggccacc
                                                                    180
etcetteetg egggcaccca getggtttga caetggacte teagagatge geetggagaa
                                                                    240
ggacaggttc tctgtcaacc tggatgtgaa gcacttctcc ccagaggaac tcaaagttaa
                                                                    300
ggtgttggga gatgtgattg aggtgcatgg aaaacatgaa gagcgccagg atgaacatgg
                                                                    360
tttcatctcc agggagttcc acaggaaata ccggatccca gctgatgtag accctctcac
                                                                    420
cattacttca tecetgtcat etgatggggt ceteactgtg aatggaccaa ggaaacaggt
                                                                    480
ctctggccct gagcgcacca ttcccatcac ccgtgaagag aagcctgctg tcaccgcaqc
                                                                    540
ccccaagaaa tagatgccct ttcttgaatt gcatttttta aaacaagaaa gtttccccac
                                                                    600
cagtgaatga aagtettgtg actagtgetg aagettatta atgetaaggg caggeecaaa
                                                                    660
ttatcaagct aataaaatat cattcagcaa c
                                                                    691
      <210> 142
     <211> 175
      <212> PRT
     <213> Homo Sapiens
      <400> 142
Met Asp Ile Ala Ile His His Pro Trp Ile Arg Arg Pro Phe Phe Pro
                                   10
Phe His Ser Pro Ser Arg Leu Phe Asp Gln Phe Phe Gly Glu His Leu
25
Leu Glu Ser Asp Leu Phe Pro Thr Ser Thr Ser Leu Ser Pro Phe Tyr
                           40
Leu Arg Pro Pro Ser Phe Leu Arg Ala Pro Ser Trp Phe Asp Thr Gly
                       55
Leu Ser Glu Met Arg Leu Glu Lys Asp Arg Phe Ser Val Asn Leu Asp
                   70
                                       75
                                                 Val Lys His Phe Ser Pro Glu Glu Leu Lys Val Lys Val Leu Gly Asp
          85
                                   90
                                                95
Val Ile Glu Val His Gly Lys His Glu Glu Arg Gln Asp Glu His Gly
           100
                               105
                                                 110
Phe Ile Ser Arg Glu Phe His Arg Lys Tyr Arg Ile Pro Ala Asp Val
                           120
                                               125
Asp Pro Leu Thr Ile Thr Ser Ser Leu Ser Ser Asp Gly Val Leu Thr
                       135
Val Asn Gly Pro Arg Lys Gln Val Ser Gly Pro Glu Arg Thr Ile Pro
                   150
                                       155
Ile Thr Arg Glu Glu Lys Pro Ala Val Thr Ala Ala Pro Lys Lys
                                   170
      <210> 143
      <211> 1300
      <212> DNA
      <213> Homo Sapiens
      <400> 143
atctgctggg aatttcttgg gttgacagct cttggatccc tattttgaac agtggtagtg
                                                                     60
tcctggatta cttttcagaa agaagtaatc ctttttatga cagaacatgt aataatgaaq
                                                                    120
tggtcaaaat gcagaggcta acattagaac acttgaatca gatggttgga atcgagtaca
                                                                    180
teettttgea tgeteaagag eccattettt teateatteg gaageaacag eggeagteee
                                                                    240
ctgcccaagt tatcccacta gctgattact atatcattgc tggagtgatc tatcaggcac
                                                                    300
cagacttggg atcagttata aactctagag tgcttactgc agtgcatggt attcagtcag
                                                                    360
cttttgatga agctatgtca tactgtcgat atcatccttc caaagggtat tggtggcact
```

77 W 27/U74VJ

A Section of the

420

```
tcaaagatca tgaagagcaa gataaagtca gacctaaagc caaaaggaaa gaagaaccaa
                                                                       480
gctctatttt tcagagacaa cgtgtggatg ctttactttt agacctcaga caaaaatttc
                                                                       540
cacccaaatt tgtgcagcta aagcctggag aaaagcctgt tcaagtggat caaacaaaga
                                                                       600
aagaggcaga acctatacca gaaactgtaa aacctgagga gaaggagacc cccnnagaat
                                                                       660
gtacaaccag accgggagtg ctaaaggccc ccctgaaaaa cggatgagac ttcagtgagt
                                                                       720
actggacaaa agagaagcct ggaagactcc tcatgctagt tatcatacct cagtactgtg
                                                                       780
getettgage tttgaagtac tttattgtaa cettettatt tgtatggaat gegettattt
                                                                       840
tttgaaagga tattaggccg gatgtggtgg ctcacgcctg taatcccagc actttgggag
                                                                       900
gccatggcgg gtggatcact tgaggtcaga agttcaagac cagcctgacc aatatggtga
                                                                       960
aaccccgtct ctactaaaaa tacaaaaatt agccgggcgt ggtggcgggc gcccgtagtc
                                                                      1020
ccagctactc gggaggctga gacaggagac ttgcttgaac ccgggaggtg gaggttgccc
                                                                      1080
tgagctgatt atcatgctgt tgcactccag cttgggcgac agagcgagac tttgtctcaa
                                                                      1140
aaaagaagaa aagatattac tcccatcatg atttcttgtg aatatttgtt atatgtcttc
                                                                      1200
tgtaaccttt cctctcccgg acttgagcaa cctacacact cacatgttta ctggtagata
                                                                      1260
tgtttaaaag caaaataaag gtatttgtat atattgaaaa
                                                                      1300
      <210> 144
```

<210> 144 <211> 233 <212> PRT <213> Homo Sapiens

<400> 144

TTU 77/UTAUJ

--- Leu-Leu-Gly-Ile-Ser Trp Val Asp Ser Ser Trp Ile Pro Ile Leu Asn 5 10 Ser Gly Ser Val Leu Asp Tyr Phe Ser Glu Arg Ser Asn Pro Phe Tyr 25 Asp Arg Thr Cys Asn Asn Glu Val Val Lys Met Gln Arg Leu Thr Leu 40 Glu His Leu Asn Gln Met Val Gly Ile Glu Tyr Ile Leu Leu His Ala Gln Glu Pro Ile Leu Phe Ile Ile Arg Lys Gln Gln Arg Gln Ser Pro 70 - 9-14 WARREN 12:75 - 1 2 2 3 80 Ala Gln Val Ile Pro Leu Ala Asp Tyr Tyr Ile Ile Ala Gly Val Ile 90 Tyr Gln Ala Pro Asp Leu Gly Ser Val Ile Asn Ser Arg Val Leu Thr 105 Ala Val His Gly Ile Gln Ser Ala Phe Asp Glu Ala Met Ser Tyr Cys 120 125 Arg Tyr His Pro Ser Lys Gly Tyr Trp Trp His Phe Lys Asp His Glu 135 Glu Gln Asp Lys Val Arg Pro Lys Ala Lys Arg Lys Glu Glu Pro Ser 150 155 Ser Ile Phe Gln Arg Gln Arg Val Asp Ala Leu Leu Leu Asp Leu Arg 165 . 170 Gln Lys Phe Pro Pro Lys Phe Val Gln Leu Lys Pro Gly Glu Lys Pro 180 185 Val Gln Val Asp Gln Thr Lys Lys Glu Ala Glu Pro Ile Pro Glu Thr 200 205 Val Lys Pro Glu Glu Lys Glu Thr Pro Glu Cys Thr Thr Arg Pro Gly 215. Val Leu Lys Ala Pro Leu Lys Asn Gly 230

> <210> 145 <211> 1528

<400> 145

ccccctttt tttttaaact aaaatggagg ctggtttctt gccttaagga gcccattgcc 60 tttcccgctg aagtctagat gttgacatgt aataaagcgg gcagcaggat ggtggtggat 120 geggecaact ccaatgggee tttccagece gtggteette tecatatteg agatgtteet 180 cotgetgate aagagaaget tittatecag aagitaegte agigtigegt cotetitigae 240 tttgtttctg atccactaag tgacctaaag tggaaggaag taaaacgagc tgctttaagt 300 gaaatggtag aatatatcac ccataatcgg aatgtgatca cagagcctat ttacccagaa 360 gtagtccata tgtttgcagt taacatgttt cgaacattac caccttcctc caatcctacg 420 ggagcggaat ttgacccgga ggaagatgaa ccaacgttag aagcagcctg gcctcatcta 480 cagcttgttt atgaattttt cttaagattt ttagagtctc cagatttcca acctaatata 540 gcgaagaaat atattgatca gaagtttgta ttgcagcttt tagagctctt tgacagtgaa 600 gatecteggg agagagattt tettaaaace accetteaca gaatetatgg gaaatteeta 660 ggcttgagag cttacatcag aaaacagata aataatatat tttataggtt tatttatgaa 720 acagagcatc ataatggcat agcagagtta ctggaaatat tgggaagtat aattaatgga 780 tttgccttac cactaaaaga agagcacaag attttcttat tgaaggtgtt actacctttg 840 cacaaagtga aatctctgag tgtctaccat ccccagctgg catactgtgt agtgcagttt 900 ttagaaaagg acagcaccct cacggaacca gtggtgatgg cacttctcaa atactggcca 960 aagactcaca gtccaaaaga agtaatgttc ttaaacgaat tagaagagat tttagatgtc 1020 attgaaccat cagaatttgt gaagatcatg gaacccctct tccggcagtt ggccaaatgt 1080 gtctccagcc cacacttcca ggtggcagag cgagctctct attactggaa taatgaatac 1140 atcatgagtt taatcagtga caacgcagcg aagattctgc ccatcatgtt tccttccttg 1200 taccgcaact caaagaccca ttggaacaag acaatacatg gcttgatata caacgccctg 1260 aagctettea tggagatgaa eeaaaageta tttgatgaet gtacacaaca gttcaaagea 1320 gagaaactaa aagagaagct aaaaatgaaa gaacgggaag aagcatgggt taaaatagaa 1380 aatctagcca aagccaatcc ccaggtacta aaaaagagaa taacatgaaa aggcccaggg 1440 ttacttgaat gtttttataa gataggaata tatgtcttca ccatgggggg ggtctcgatt 1500 %db - 11 - 158 tcactaacgt tgtatatgaa aatgtctg 1528

423 H 5 38 5

TEXT OF A

<211> 449

<212> PRT 3

<213> Homo Sapiens

<400> 146

Met Leu Thr Cys Asn Lys Ala Gly Ser Arg Met Val Val Asp Ala Ala 10 Asn Ser Asn Gly Pro Phe Gln Pro Val Val Leu Leu His Ile Arg Asp 25 Val Pro Pro Ala Asp Gln Glu Lys Leu Phe Ile Gln Lys Leu Arg Gln 40 Cys Cys Val Leu Phe Asp Phe Val Ser Asp Pro Leu Ser Asp Leu Lys 55 Trp Lys Glu Val Lys Arg Ala Ala Leu Ser Glu Met Val Glu Tyr Ile 75 Thr His Asn Arg Asn Val Ile Thr Glu Pro Ile Tyr Pro Glu Val Val His Met Phe Ala Val Asn Met Phe Arg Thr Leu Pro Pro Ser Ser Asn 105 Pro Thr Gly Ala Glu Phe Asp Pro Glu Glu Asp Glu Pro Thr Leu Glu 120 125 Ala Ala Trp Pro His Leu Gln Leu Val Tyr Glu Phe Phe Leu Arg Phe 130 135 140

Ÿ₹♥ プブ/U9ZUご I ♥ L1 () ごフロ/ L9U / フ

```
Leu Glu Ser Pro Asp Phe Gln Pro Asn Ile Ala Lys Lys Tyr Ile Asp
                      150
  Gln Lys Phe Val Leu Gln Leu Leu Glu Leu Phe Asp Ser Glu Asp Pro
                                     170
  Arg Glu Arg Asp Phe Leu Lys Thr Thr Leu His Arg Ile Tyr Gly Lys
              180
                                 185
  Phe Leu Gly Leu Arg Ala Tyr Ile Arg Lys Gln Ile Asn Asn Ile Phe
                             200
  Tyr Arg Phe Ile Tyr Glu Thr Glu His His Asn Gly Ile Ala Glu Leu
                          215
                                             220
  Leu Glu Ile Leu Gly Ser Ile Ile Asn Gly Phe Ala Leu Pro Leu Lys
  225
                     230
                                         235
  Glu Glu His Lys Ile Phe Leu Leu Lys Val Leu Leu Pro Leu His Lys .
                                     250
  Val Lys Ser Leu Ser Val Tyr His Pro Gln Leu Ala Tyr Cys Val Val
                                 265
  Gln Phe Leu Glu Lys Asp Ser Thr Leu Thr Glu Pro Val Val Met Ala
                             280
  Leu Leu Lys Tyr Trp Pro Lys Thr His Ser Pro Lys Glu Val Met Phe
                         295
  Leu Asn Glu Leu Glu Glu Ile Leu Asp Val Ile Glu Pro Ser Glu Phe
  Val Lys Ile Met Glu Pro Leu Phe Arg Gln Leu Ala Lys Cys Val Ser
                 325
                                     330
  Ser Pro His Phe Gln Val Ala Glu Arg Ala Leu Tyr Tyr Trp Asn Asn
                                 345
  Glu Tyr Ile Met Ser Leu Ile Ser Asp Asn Ala Ala Lys Ile Leu Pro
         355
                             360
                                                365
Ile Met Phe Pro Ser Leu Tyr Arg Asn Ser Lys Thr His Trp Asn Lys
     370
                         375
                                     380
  Thr Ile His Gly Leu Ile Tyr Asn Ala Leu Lys Leu Phe Met Glu Met
         13.5
                    390
                                         395
                                              400
  Asn Gln Lys Leu Phe Asp Asp Cys Thr Gln Gln Phe Lys Ala Glu Lys
                 405
  Leu Lys Glu Lys Leu Lys Met Lys Glu Arg Glu Glu Ala Trp Val Lys
             420
                                 425
  Ile Glu Asn Leu Ala Lys Ala Asn Pro Gln Val Leu Lys Lys Arg Ile
                             440
  Thr
```

<210> 147 <211> 1580

<212> DNA

<213> Homo Sapiens

<400> 147

atcccctccg gttttcctca gtctccacgt acgtccctca aagcgcgtcc taaaacccgg ataaccggag cgctccccat ggaccacacg gagggcttgc ccgcggagga gccgcctgcg 60 120 catgetecat egeetgggaa atttggtgag eggeetecae etaaaegaet taetagggaa gctatgcgaa attatttaaa agagcgaggg gatcaaacag tacttattct tcatgcaaaa 180 gttgcacaga agtcatatgg aaatgaaaaa aggttttttt gcccacctcc ttgtgtatat 240 300 cttatgggca gcggatggaa gaaaaaaaa gaacaaatgg aacgcgatgg ttgttctgaa 360 caagagtete aaccgtgtge atttattggg ataggaaata gtgaccaaga aatgcagcag ctaaacttgg aaggaaagaa ctattgcaca gccaaaacat tgtatatatc tgactcagac 420 480

aagcgaaagc acttcatttt ttctgtaaag atgttctatg gcaacagtga tgacattggt 540 gtgttcctca gcaagcggat aaaagtcatc tccaaacctt ccaaaaagaa gcagtcattg 600 aaaaatgctg acttatgcat tgcctcagga acaaaggtgg ctctgtttaa tcgactacga 660 teccagacag tragraceag atacttgeat gragaaggag graattttea tgecagttea 720 cagcagtggg gagccttttt tattcatctc ttggatgatg atgaatcaga aqqaqaaqaa 780 ttcacagtcc gagatgtcta catccattat ggacaaacat gcaaacttgt gtgctcagtt 840 actggcatgg cactcccaag attgataatt atgaaagttg ataagcatac cgcattattg 900 gatgcagatg atcctgtgtc acaactccat aaatgtgcat tttaccttaa ggatacagaa 960 agaatgtatt tgtgcctttc tcaagaaaga ataattcaat ttcaggccac tccatgtcca 1020 aaagaaccaa ataaagagat gataaatgat ggcgcttcct ggacaatcat tagcacagat .1080 aaggcagagt atacatttta tgagggaatg ggccctgtcc ttgccccagt cactcctgtg 1140 cctgtggtag agagccttca gttgaatggc ggtggggacg tagcaatgct tgaacttaca 1200 ggacagaatt tcactccaaa tttacgagtg tggtttgggg atgtagaagc tgaaactatg 1260 tacaggtgtg gagagagtat gctctgtgtc gtcccagaca tttctgcatt ccgagaaggt 1320 tggagatggg tccggcaacc agtccaggtt ccagtaactt tggtccgaaa tgatggaatc 1380 atttattcca ccagcettae etttacetae acaccagaae cagggecaeg gecacattge 1440 agtgtagcag gagcaatcct tccagccaat tcaagccagg tgccccctaa cgaatcaaac 1500 acaaacagcg agggaagtta cacaaacgcc agcacaaatt caaccagtgt cacatcatct 1560 acagccacag tggtatccta 1580

<210> 148

<211> 500

<213> Homo Sapiens

<400> 148

Met Asp His Thr Glu Gly Leu Pro Ala Glu Glu Pro Pro Ala His Ala 10 Pro Ser Pro Gly Lys Phe Gly Glu Arg Pro Pro Pro Lys Arg Leu Thr 30 20 Arg Glu Ala Met Arg Asn Tyr Leu Lys Glu Arg Gly Asp Gln Thr Val 45 Leu Ile Leu His Ala Lys Val Ala Gln Lys Ser Tyr Gly Asn Glu Lys 55 Arg Phe Phe Cys Pro Pro Pro Cys Val Tyr Leu Met Gly Ser Gly Trp 70 Lys Lys Lys Glu Gln Met Glu Arg Asp Gly Cys Ser Glu Gln Glu 85 Ser Gln Pro Cys Ala Phe Ile Gly Ile Gly Asn Ser Asp Gln Glu Met 105 Gln Gln Leu Asn Leu Glu Gly Lys Asn Tyr Cys Thr Ala Lys Thr Leu Tyr Ile Ser Asp Ser Asp Lys Arg Lys His Phe Ile Phe Ser Val Lys 135 Met Phe Tyr Gly Asn Ser Asp Asp Ile Gly Val Phe Leu Ser Lys Arg 150 155 Ile Lys Val Ile Ser Lys Pro Ser Lys Lys Lys Gln Ser Leu Lys Asn 165 Ala Asp Leu Cys Ile Ala Ser Gly Thr Lys Val Ala Leu Phe Asn Arg 185 Leu Arg Ser Gln Thr Val Ser Thr Arg Tyr Leu His Val Glu Gly Gly 200 Asn Phe His Ala Ser Ser Gln Gln Trp Gly Ala Phe Phe Ile His Leu Leu Asp Asp Glu Ser Glu Gly Glu Glu Phe Thr Val Arg Asp Val

```
235
Tyr Ile His Tyr Gly Gln Thr Cys Lys Leu Val Cys Ser Val Thr Gly
                                   250
Met Ala Leu Pro Arg Leu Ile Ile Met Lys Val Asp Lys His Thr Ala
                               265
Leu Leu Asp Ala Asp Asp Pro Val Ser Gln Leu His Lys Cys Ala Phe
                           280
Tyr Leu Lys Asp Thr Glu Arg Met Tyr Leu Cys Leu Ser Gln Glu Arg
                       295
                                          300
Ile Ile Gln Phe Gln Ala Thr Pro Cys Pro Lys Glu Pro Asn Lys Glu
                   310
                                      315 .
Met Ile Asn Asp Gly Ala Ser Trp Thr Ile Ile Ser Thr Asp Lys Ala
               325
                                   330
Glu Tyr Thr Phe Tyr Glu Gly Met Gly Pro Val Leu Ala Pro Val Thr
   340 345
                                                  350
Pro Val Pro Val Val Glu Ser Leu Gln Leu Asn Gly Gly Asp Val
       355
                           360
Ala Met Leu Glu Leu Thr Gly Gln Asn Phe Thr Pro Asn Leu Arg Val
                       375
                                          380
Trp Phe Gly Asp Val Glu Ala Glu Thr Met Tyr Arg Cys Gly Glu Ser
                   390
                                      395
Met Leu Cys Val Val Pro Asp Ile Ser Ala Phe Arg Glu Gly Trp Arg
405-----410
Trp Val Arg Gln Pro Val Gln Val Pro Val Thr Leu Val Arg Asn Asp
           420
                               425
Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro
       435
                          440
Gly Pro Arg Pro His Cys Ser Val Ala Gly Ala Ile Leu Pro Ala Asn
   450 WARRING By WARRING 1 455
Ser Ser Gln Val Pro Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser
465 470
                                      475
                                                          480
Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser Val Thr Ser Ser Thr Ala
      00.485 % 12485.
                             490
                                                      495
Thr Val Val Ser
        500
     <210> 149
      <211> 1248
      <212> DNA
      <213> Homo Sapiens
      <400> 149
caagatatcg aattecaaat ttgagggeet eeeggetetg gegeeggagg gagageteag
                                                                    60
gccgccatgc gcgacaggac ccacgagctg agacaggggg atgacagctc ggacgaagag
                                                                   : 120
gacaaggage gggtegeget ggtggtgeae cegggeaegg caeggetggg gageeeggae
                                                                    180
gaggagttct tccacaaggt ccggacaatt cgtcagacta ttgtcaaact ggggaataaa
                                                                    240
gtccaggagt tggagaaaca gcaggtcacc atcctggcca cgccccttcc cgaggagagc
                                                                    300
atgaagcagg agctgcagaa cctgcgcgat gagatcaaac agctggggag ggagatccgc
                                                                    360
ctgcagctga aggccataga gccccagaag gaggaagctg atgagaacta taactccgtc
                                                                    420
aacacaagaa tgagaaaaac ccagcatggg gtcctgtccc agcaattcgt ggagctcatc
                                                                    480
aacaagtgca attcaatgca gtccgaatac cgggagaaga acgtggagcg gattcggagg
                                                                    540
cagctgaaga tcaccaatgc tggcatggtg tctgatgagg agttggatca gatgctggac
                                                                    600
agtgggcaaa gcgaggtgtt tgtgtccaat atccttaagg acacgcaggt gactcgacag
                                                                    660
gccttaaatg agatetegge ceggcacagt gagatecage agettgaacg cagtattegt
                                                                    720
```

ノストレロノロノスマロテノ

780

マヤ ❤ ング/ひつねひご

gagetgeacg acatatteac ttttctgget accgaagtgg agatgeaggg ggagatgate

aatcggattg agaagaacat cctgagctca gcggactacg tggaacgtgg gcaggagcac 840 gtcaagacgg ccctggagaa ccagaagaag gtgaggaaga agaaagtctt gattgccatc 900 tgtgtgtcca tcaccgtcgt cctcctagca gtcatcattg gcgtcacagt ggttggataa 960 tgtcgcacat tgttggcact aggagcacca ggaacccagg gcctggcctt ctctccaqc 1020 agectggggg geaggeagag cetecagteg gacceettee teacacaetg geceetatge 1080 agaagggcag acagttette tggggttgge agetgeteat teatgatgge etecteette 1140 aggeeteaat geetggggga ggeetgeaet gteetgattg geegggaeae aeggttttqt 1200 1248 <210> 150 <211> 297 <212> PRT <213> Homo Sapiens <400> 150 Met Arg Asp Arg Thr His Glu Leu Arg Gln Gly Asp Asp Ser Ser Asp 5 Glu Glu Asp Lys Glu Arg Val Ala Leu Val Val His Pro Gly Thr Ala 25 Arg Leu Gly Ser Pro Asp Glu Glu Phe Phe His Lys Val Arg Thr Ile 40 Arg Gln Thr Ile Val Lys Leu Gly Asn Lys Val Gln Glu Leu Glu Lys Gln Gln Val Thr Ile Leu Ala Thr Pro Leu Pro Glu Glu Ser Met Lys 70 75 Gln Glu Leu Gln Asn Leu Arg Asp Glu Ile Lys Gln Leu Gly Arg Glu 85 90 Ile Arg Leu Gln Leu Lys Ala Ile Glu Pro Gln Lys Glu Glu Ala Asp 110 Glu-Asn Tyr Asn Ser Val Asn Thr Arg Met Arg Lys Thr Gln His Gly and the Tyre As ...,115 120 125 Val Leu Ser Gln Gln Phe Val Glu Leu Ile Asn Lys Cys Asn Ser Met جيد حقي عفوق الرابية كالحا 135 (a. 1.30) 140 Gln Ser Glu Tyr Arg Glu Lys Asn Val Glu Arg Ile Arg Arg Gln Leu 155 Lys Ile Thr Asn Ala Gly Met Val Ser Asp Glu Glu Leu Asp Gln Met 165 170 Leu Asp Ser Gly Gln Ser Glu Val Phe Val Ser Asn Ile Leu Lys Asp 185 Thr Gln Val Thr Arg Gln Ala Leu Asn Glu Ile Ser Ala Arg His Ser 200 Glu Ile Gln Gln Leu Glu Arg Ser Ile Arg Glu Leu His Asp Ile Phe 215 Thr Phe Leu Ala Thr Glu Val Glu Met Gln Gly Glu Met Ile Asn Arg 230 235 Ile Glu Lys Asn Ile Leu Ser Ser Ala Asp Tyr Val Glu Arg Gly Gln 245 250 Glu His Val Lys Thr Ala Leu Glu Asn Gln Lys Lys Val Arg Lys Lys 265 Lys Val Leu Ile Ala Ile Cys Val Ser Ile Thr Val Val Leu Leu Ala 280 Val Ile Ile Gly Val Thr Val Val Gly 290 295

A - A1 - 00/014701/

<210> 151

77 **U** 77/U74UJ

<211> 1953 <212> DNA <213> Homo Sapiens

<400> 151

acgcctgcca ggagcaagcc gaagagccag ccggccggcg cactccgact ccgagcagtc 60 tetgteette gaccegagee cegegeeett teegggaeee etgeeeegeg ggeagegetg 120 ccaacetgee ggecatggag acceegteee ageggegege caceegeage ggggegeagg 180 ccagctccac tccgctgtcg cccacccgca tcacccggct gcaggagaag gaggacctgc 240 aggageteaa tgategettg geggtetaca tegacegtgt gegetegetg gaaacggaga 300 acgcagggct gcgccttcgc atcaccgagt ctgaagaggt ggtcagccgc gaggtgtccg 360 gcatcaagge egectaegag geegageteg gggatgeeg caagaceett gaeteagtag 420 ccaaggagcg cgcccgcctg cagctggagc tgagcaaagt gcgtgaggag tttaaggagc 480 tgaaagcgcg caataccaag aaggaggtg acctgatagc tgctcaggct cggctgaagg 540 acctggagge tetgetgaae tecaaggagg cegeaetgag cactgetete agtgagaage 600 gcacgctgga gggcgagctg catgatctgc ggggccaggt ggccaagctt gaggcagccc 660 taggtgaggc caagaagcaa cttcaggatg agatgctgcg gcgggtggat gctgagaaca 720 ggctgcagac catgaaggag gaactggact tccagaagaa catctacagt gaggagctgc 780 gtgagaccaa gcgccgtcat gagacccgac tggtggagat tgacaatggg aagcagcgtg 840 agtttgagag ccggctggcg gatgcgctgc aggaactgcg ggcccagcat gaggaccagg 900 tggagcagta taagaaggag ctggagaaga cttattctgc caagctggac aatgccaggc 960 agtetgetga gaggaacage aacetggtgg gggetgeeca egaggagetg cageagtege 1020 gcatccgcat cgacagcete tetgeccage tcagccaget ccagaagcag ctggcagcca 1080 aggaggegaa gettegagae etggaggaet caetggeeeg tgagegggae accageegge 1140 ggctgctggc ggaaaaggag cgggagatgg ccgagatgcg ggcaaggatg cagcagcagc 1200 tggacgagta ccaggagett ctggacatca agctggccct ggacatggag atccacgcct 1260 accgcaaget ettggaggge gaggaggaga ggetacgeet gteecccage ectacetege 1320 agegeageeg tggeegtget teeteteact cateceagae acagggtggg ggeagegtea 1380 ccaaaaagcg caaactggag tccactgaga gccgcagcag cttctcacag cacgcacgca 1440 ctagcgggcg cgtggccgtg gaggaggtgg atgaggaggg caagtttgtc cggctgcgca 1500 acaagtccaa tgaggaccag tccatgggca attggcagat caagcgccag aatggagatg 1560 ... atcccttgct gacttaccgg ttcccaccaa agttcaccct gaaggctggg caggtggtga 1620 cgatctgggc tgcaggagct ggggccaccc acagccccc taccgacctg gtgtggaagg 168045.4 cacagaacac ctggggctgc gggaacagcc tgcgtacggc tctcatcaac tccactgggg 1740 ": aagaagtggc catgcgcaag ctggtgcgct cagtgactgt ggttgaggac gacgaggatg 1800 aggatggaga tgacctgetc catcaccacc acgtgagtgg tagccgccgc tgaggccgag 1860 cetgeactgg ggccaceage caggectggg ggcagectet ceccagecte ceegtgccaa 1920 aaatcttttc attaaagaat gttttggaac ttt 1953

<210> 152 <211> 572 <212> PRT <213> Homo Sapiens

<400> 152

 Met
 Glu
 Thr
 Pro
 Ser
 Gln
 Arg
 Arg
 Ala
 Thr
 Arg
 Ser
 Gly
 Ala
 Gln
 Ala

 1

T C 1/ US 20/14403

Tyr	Glu	Ala	Glu	Leu 85	Gly	Asp	Ala	Arg	Lys 90	Thr	Leu	Asp	Ser	Val 95	Ala
Lys	Glu	Arg	Ala 100	Arg	Leu	Gln	Leu	Glu 105	Leu	Ser	Lys	Val	Arg 110	Glu	Glu
	_	115	Leu				120		_	_		125	-		
	130		Ala			135					140				• •7
Glu 145	Ala	Ala	Leu	Ser	Thr 150	Ala	Leu	Ser	Glu	Lys 155	Arg	Thr	Leu	Glu	Gly 160
			Asp	165				•	170					175	
			Lys 180					185			•		190		-
		195					200					205			
	210		Ser			215	*				220				
Arg 225		Val	Glu	Ile	Asp 230	Asn		Lys	Gln	Arg 235	Glu	Phe	Glu	Ser	Arg 240
		•	Ala	245					250				-	255	
			Lys 260					265					270		_
		275	Gln		•		280		٠,			285	-		
	290		Leu			295					300				
305			Gln		310	, valle	(12.7°)	: :		315		**: *		_	320
		·	Glu	325	1 5	315, 143	nogue.	:	330					335	_
Leu	Leu	Ala	Glu 340	Lys	Glu			Met 345		Glu	Met	Arg	Ala 350	_	Met
		355	Leu				360				r	365	_		
	370		Glu			375					380				
Glu 385	Arg	Leu	Arg	Leu	Ser 390	Pro	Ser	Pro	Thr	Ser 395	Gln	Arg	Ser	Arg	Gly 400
Arg	Ala	Ser	Ser	His 405		Ser	Gln	Thr	Gln 410		Gly	Gly	Ser	Val 415	
Lys	Lys	Arg	Lys 420		Glu	Ser	Thr	Glu 425		Arg	Ser	Ser	Phe 430	Ser	Gln
His	Ala	Arg 435	Thr	Ser	Gly	Arg	Val 440		Val	Glu	Glu	Val 445	_	Glu	Glu
Gly	Lys 450		Val	Arg	Leu	Arg 455		Lys	Ser	Asn	Glu 460		Gln	Ser	Met
Gly 465		Trp	Gln	Ile	Lys 470		Gln	Asn	Gly	Asp 475		Pro	Leu	Leu	Thr 480
		. Phe	Pro	Pro 485		Phe	Thr	Leu	Lys 490		Gly	Gln	Val	Val 495	Thr
Ile	Trp		Ala 500											Asp	
Val	Trr	Taze	Δla	Gln	Agn	Thy	• Път	Gla	Cve	രിച	700	Co~	T 011	7 ~~~	mb~

A しょししじノい(エマロ)ノ

```
515
                              520
  Ala Leu Ile Asn Ser Thr Gly Glu Glu Val Ala Met Arg Lys Leu Val
                          535
  Arg Ser Val Thr Val Val Glu Asp Glu Asp Glu Asp Gly Asp Asp
  545
                      550
  Leu Leu His His His Val Ser Gly Ser Arg Arg
                  565
                                       570
        <210> 153
        <211> 1610
        <212> DNA
        <213> Homo Sapiens
        <400> 153
  -ctgcaggaat teggcaegag eggteaegee gagecagege etgggeetgg aacegggeeg
                                                                         60
  tagccccca gtttcgccca ccacctccct accatggacc cccgcaaagt gaacgagctt
                                                                        120
  egggeetttg tgaaaatgtg taageaggat eegagegtte tgtacacega ggaaatgege
                                                                        180
  ttcctgaggg agtgggtgga gagcataggt ggtaaagtac cacctgctac tcagaaagct
                                                                        240
  atatcagaag aaaataccaa ggaagaaaaa cctgatagta agaaggtgga ggaagactta
                                                                        300
  aaggcagacg aaccatcaag tgaggaaagt gatctagaaa ttgataaaga aggtgtgatt
                                                                        360
  gaaccagaca ctgatgctcc tcaagaaatg ggagatgaaa atgcggagat aacggaggag
                                                                        420
  atgatggatc aggcaaatga taaaaaagtg gctgctattg aagccctaaa tgatggtgaa
                                                                        480
 ctccagaaag ccattgactt attcacagat gccatcaagc tgaatcctcg cttggccatt
                                                                        540
  ttgtatgcca agagggccag tgtcttcgtc aaattacaga agccaaatgc tgccatccga
                                                                        600
  gactgtgaca gagccattga aataaatcct gattcagctc agccttacaa gtggcggggg
                                                                        660
  aaagcacaca gacttctagg ccactgggaa gaagcagccc atgatcttgc ccttgcctgt
                                                                        720
  aaattggatt atgatgaaga tgctagtgca atgctgaaag aagttcaacc tagggcacag
                                                                        780
  aaaattgcag aacatcggag aaagtatgag cgaaaacgtg aagagcgaga gatcaaagaa
                                                                        840
 agaatagaac gagttaagaa ggctcgagaa gagcatgaga gagcccagag ggaggaagaa
                                                                        900
 gccagacgac agtcaggagc tcagtatggc tcttttccag gtggctttcc tgggggaatg
                                                                        960
  cetggtaatt tteeeggagg aatgeetgga atgggagggg geatgeetgg aatggetgga ... 1020
 atgcctggac tcaatgaaat tcttagtgat ccagaggttc ttgcagccat gcaggatcca
eggaagttatgg tggctttcca ggatgtggct cagaacccag@caaatatgtc aaaataccag@caal1140
  agcaacccaa aggttatgaa tctcatcagt aaattgtcag ccaaatttgg aggtcaagcg
                                                                       1200
  taatgteett etgataaata aageeettge tgaaggaaaa gcaacetaga teacettatg
                                                                       1260
  gatgtegeaa taatacaaac cagtgtacct ctgaccttet catcaagaga getggggtge
                                                                       1320
 tttgaagata atccctaccc ctctccccca aatgcagctg aagcatttta cagtggtttg
                                                                       1380
  ccattagggt attcattcag ataatgtttt cctactagga attacaaact ttaaacactt
                                                                       1440
  tttaaatctt caaaatattt aaaacaaatt taaagggcct gttaattctt atattttct
                                                                       1500
  ttactaatca ttttggattt ttttctttga attattggca gggaatatac ttatgtatgg
                                                                       1560
  aagattactg ctctgagtga aataaaagtt attagtgcga ggcaaacata
                                                                       1610
        <210> 154
        <211> 369
        <212> PRT
        <213> Homo Sapiens
        <400> 154
 Met Asp Pro Arg Lys Val Asn Glu Leu Arg Ala Phe Val Lys Met Cys
                                      10
 Lys Gln Asp Pro Ser Val Leu Tyr Thr Glu Glu Met Arg Phe Leu Arg
                                  25
 Glu Trp Val Glu Ser Ile Gly Gly Lys Val Pro Pro Ala Thr Gln Lys
 Ala Ile Ser Glu Glu Asn Thr Lys Glu Glu Lys Pro Asp Ser Lys Lys
```

ママ しょ ファバリマルリン

```
55
                                        60
Val Glu Glu Asp Leu Lys Ala Asp Glu Pro Ser Ser Glu Glu Ser Asp
Leu Glu Ile Asp Lys Glu Gly Val Ile Glu Pro Asp Thr Asp Ala Pro
Gln Glu Met Gly Asp Glu Asn Ala Glu Ile Thr Glu Glu Met Met Asp
                             105
Gln Ala Asn Asp Lys Lys Val Ala Ala Ile Glu Ala Leu Asn Asp Gly
                         120
Glu Leu Gln Lys Ala Ile Asp Leu Phe Thr Asp Ala Ile Lys Leu Asn
                      135
Pro Arg Leu Ala Ile Leu Tyr Ala Lys Arg Ala Ser Val Phe Val Lys
                  150
                                     155
Leu Gln Lys Pro Asn Ala Ala Ile Arg Asp Cys Asp Arg Ala Ile Glu
   ______165______170_____175_
Ile Asn Pro Asp Ser Ala Gln Pro Tyr Lys Trp Arg Gly Lys Ala His
                             185
Arg Leu Leu Gly His Trp Glu Glu Ala Ala His Asp Leu Ala Leu Ala
                          200
Cys Lys Leu Asp Tyr Asp Glu Asp Ala Ser Ala Met Leu Lys Glu Val
                      215
Gln Pro Arg Ala Gln Lys Ile Ala Glu His Arg Arg Lys Tyr Glu Arg
Lys Arg Glu Glu Arg Glu Ile Lys Glu Arg Ile Glu Arg Val Lys Lys
                                 250
               245
Ala Arg Glu Glu His Glu Arg Ala Gln Arg Glu Glu Glu Ala Arg Arg
                             265
           260
Gln Ser Gly Ala Gln Tyr Gly Ser Phe Pro Gly Gly Phe Pro Gly Gly
        275 AMR. 280 W. Line 30 285
Met Pro Gly Asn Phe Pro Gly Met Pro Gly Met Gly Gly Met
        295,900 Agg, 1960 W
                                        300
Pro Gly Met Ala Gly Met Pro Gly Leu Asn Glu Ile Leu Ser Asp Pro
                  310 a colored for the party of $315 (1997) and $320
Glu Val Leu Ala Ala Met Gln Asp Pro Glu Val Met Val Ala Phe Gln
               Asp Val Ala Gln Asn Pro Ala Asn Met Ser Lys Tyr Gln Ser Asn Pro
           340
                              345
 Lys Val Met Asn Leu Ile Ser Lys Leu Ser Ala Lys Phe Gly Gly Gln.
                          360
 Ala
      <210> 155
      <211> 1323
      <212> DNA
      <213> Homo Sapiens
      <400> 155
 cacaaaggca ccaaaccaca aaacgtcaca cgtaaacatc atacgtggca accacaagcc
                                                                  60
 aatcagttgg atatttcatt cattggtata catatggact gtaaggtgtc tttcaggttg
                                                                 120
```

180

240

300

360

420

caqaaaaqat qqaaaaaagg acatgtgcac tctgccccaa agatgtcgaa tataatgtcc

tqtactttqc acaatcaqaq aatatagctg ctcatgagaa ttgtttgctg tattcttcaq

gacttgtgga atgtgaggat caggatccac ttaatcctga tagaagtttt gatgtggaat

cagtaaagaa agaaatccag agaggaagga agttgaaatg caaattttgt cataaaagag

gagccaccgt gggatgtgat ttaaaaaaact gtaacaagaa ttaccacttt ttctgtgcca

すすひ ファノンマルリン

```
agaaggacga cgcagttcca cagtctgatg gagttcgagg aatttataaa ctgctttgcc
                                                                       480
agcaacatge teaatteeeg ateategete aaagtgetaa atttteagga qtgaaaagaa
                                                                       540
aaagaggaag gaagaaaccc ctctcaggca atcatgtaca gccacccgaa acaatgaaat
                                                                       600
gtaatacatt cataagacaa gtgaaagaag agcatggcag acacacagat gcaactgtga
                                                                       660
aagtteettt tettaagaaa tgeaagggaa geaggaette ttaattaett aettgaagaa
                                                                       720
atattagnca aagttcattc aattccagaa aaactcatgg atgagactta cttcagaatc
                                                                       780
agactatgaa gaaatcggga gtgcactttt tgactgtaga ttgttcgaag acacatttgt
                                                                       840
aaattttcaa gcagcaatag agaaaaaaat tcatgcatct caacaaaggt ggcagcagtt
                                                                       900
qaaqqaagag attgagctac ttcaggactt aaaacaaacc ttgtgctctt ttcaagaaaa
                                                                       960
tagagatett atgteaagtt etacateaat ateateeetg tettattagg gattaceatt
                                                                      1020
tectaageea agagteatgt caaattgeaa teaggeteaa aaccagagae caqqetqtqa
                                                                      1080
aatccacaca tetttagaac tagtegtete etettggeet cageagetet teeetgttet
                                                                      1140
tactggttga cattttgatc actctttgca cactcttgtg ttttttgctc actqtcacac
                                                                      1200
toccagoaco tagtatgoto agtaaatgtt tgtggaataa gtgcataaaa tgttottaac
                                                                      1260
ctttgattct_acttacagcc_catgatagcc_tcttagatat_aataaatttg_gattatacta___
                                                                     --1-3-2-0
                                                                      1323
      <210> 156
      <211> 191
```

<212> PRT <213> Homo Sapiens

Met Glu Lys Arg Thr Cys Ala Leu Cys Pro Lys Asp Val Glu Tyr Asn 10 Val Leu Tyr Phe Ala Gln Ser Glu Asn Ile Ala Ala His Glu Asn Cys . 25 Leu Leu Tyr Ser Ser Gly Leu Val Glu Cys Glu Asp Gln Asp Pro Leu Win Win 35mg (大) インスト 40 。 ... Asn Pro Asp Arg Ser Phe Asp Val Glu Ser Val Lys Lys Glu Ile Gln 994**50**43953 topic 977 topic 55 topic 55 Arg Gly Arg Lys Leu Lys Cys Lys Phe Cys His Lys Arg Gly Ala Thr 1 65 Lagrand of the 170, 75 Val Gly Cys Asp Leu Lys Asn Cys Asn Lys Asn Tyr His Phe Phe Cys85 90 Ala Lys Lys Asp Asp Ala Val Pro Gln Ser Asp Gly Val Arg Gly Ile Tyr Lys Leu Leu Cys Gln Gln His Ala Gln Phe Pro Ile Ile Ala Gln 120 Ser Ala Lys Phe Ser Gly Val Lys Arg Lys Arg Gly Arg Lys Lys Pro 135 Leu Ser Gly Asn His Val Gln Pro Pro Glu Thr Met Lys Cys Asn Thr 145 Phe Ile Arg Gln Val Lys Glu Glu His Gly Arg His Thr Asp Ala Thr 170 Val Lys Val Pro Phe Leu Lys Lys Cys Lys Gly Ser Arg Thr Ser 185

<210> 157

<211> 4065

<212> DNA

<213> Homo Sapiens

<400> 157

atgtcgactg gggacagttt tgagactcga tttgaaaaaa tggacaacct gctgcgggat

anny ang kang basa sa at

CARY JOHN S. BUSIN

公民 化二甲基甲基甲基甲基甲基

March 1980 and State of the second

```
cccaaatcgg aagtgaattc ggattgtttg ctggatggat tggatgcttt ggtatatgat
                                                                       120
ttggattttc ctgccttaag aaaaaacaaa aatattgaca actttttaag cagatataaa
                                                                       180
gacacaataa ataaaatcag agatttacga atgaaagctg aagattatga agtagtgaag
                                                                       240
gtgattggta gaggtgcatt tggagaagtt caattggtaa ggcataaatc caccaggaag
                                                                       300
gtatatgcta tgaagcttct cagcaaattt gaaatgataa agagatctga ttctgctttt
                                                                       360
ttctgggaag aaagggacat catggctttt gccaacagtc cttgggttgt tcagcttttt
                                                                       420
tatgcattcc aagatgatcg ttatctctac atggtgatgg aatacatgcc tggtggagat
                                                                       480
cttgtaaact taatgagcaa ctatgatgtg cctgaaaaat gggcacgatt ctatactgca
                                                                       540
gaagtagttc ttgcattgga tgcaatccat tccatgggtt ttattcacag agatgtgaag
                                                                       600
cctgataaca tgctgctgga taaatctgga catttgaagt tagcagattt tggtacttgt
                                                                       660
atgaagatga ataaggaagg catggtacga tgtgatacag cggttggaac acctgattat
                                                                       720
atttcccctg aagtattaaa atcccaaggt ggtgatggtt attatggaag agaatgtgac
                                                                       780
tggtggtcgg ttggggtatt tttatacgaa atgcttgtag gtgatacacc tttttatgca
                                                                       840
gattetttgg ttggaactta cagtaaaatt atgaaccata aaaatteact tacettteet
                                                                       900
gatgataatg acatatcaaa agaagcaaaa aaccttattt gtgccttcct tactgacagg
                                                                       960
gaagtgaggt tagggcgaaa tggtgtagaa gaaatcaaac gacatctctt cttcaaaaat
                                                                      1020
gaccagtggg cttgggaaac gctccgagac actgtagcac cagttgtacc cgatttaagt
                                                                      1080
agtgacattg atactagtaa ttttgatgac ttggaagaag ataaaggaga ggaagaaca
                                                                      1140
ttccctattc ctaaagcttt cgttggcaat caactacctt ttgtaggatt tacatattat
                                                                      1200
agcaatcgta gatacttatc ttcagcaaat cctaatgata acagaactag ctccaatgca
                                                                      1260
gataaaaget tgcaggaaag tttgcaaaaa acaatetata agetggaaga acagetgcat
                                                                      1320
aatgaaatgc agttaaaaga tgaaatggag cagaagtgca gaacctcaaa cataaaacta
                                                                      1380
gacaagataa tgaaagaatt ggatgaagag ggaaatcaaa gaagaaatct agaatctaca
                                                                      1440
gtgtctcaga ttgagaagga gaaaatgttg ctacagcata gaattaatga gtaccaaaga
                                                                      1500
aaagctgaac aggaaaatga gaagagaaga aatgtagaaa atgaagtttc tacattaaag
                                                                      1560
gatcagttgg aagacttaaa gaaagtcagt cagaattcac agcttgctaa tgagaagctg
                                                                      1620
 teccagttae aaaageaget agaagaagee aatgaettae ttaggaeaga ateggaeaca
                                                                      1680
 gctgtaagat tgaggaagag tcacacagag atgagcaagt caattagtca gttagagtcc
                                                                     1740
: ctgaacagag:agttgcaaga gagaaatcga attttagaga attctaagtc acaaacagac 🖂 🛂 1800 🕬 🚕 🛫
aaagattatt accagctgca agctatatta gaagctgaac gaagagacag aggtcatgat
                                                                    3071.860at 35,0 200
totgagatga tiggagacot toaagotoga attacatott tacaagagga ggigaagoat
                                                                    12.41.92.0000 as each
 ctcaaacata atctcgaaaa agtggaagga gaaagaaaag aggctcaaga catgcttaat
                                                                     J:1980aun :5005
 cactcagaaa aggaaaagaa taatttagag atagatttaa actacaaact taaatcatta No.2040aun errolla
 caacaacggt tagaacaaga ggtaaatgaa cacaaagtaa ccaaagctcg tttaactgac 2100
 aaacatcaat ctattgaaga ggcaaagtct gtggcaatgt gtgagatgga aaaaaagctg
                                                                     2160
 aaagaagaaa gagaagctcg agagaaggct gaaaatcggg ttgttcagat tgagaaacag
                                                                       2220
 tgttccatgc tagacgttga tctgaagcaa tctcagcaga aactagaaca tttgactgga
                                                                       2280
 aataaagaaa ggatggagga tgaagttaag aatctaaccc tgcaactgga gcaggaatca
                                                                       2340
 aataagcggc tgttgttaca aaatgaattg aagactcaag catttgaggc agacaattta
                                                                       2400
 aaaggtttag aaaagcagat gaaacaggaa ataaatactt tattggaagc aaagagatta
                                                                       2460
 ttagaatttg agttagctca gcttacgaaa cagtatagag gaaatgaagg acagatgcgg
                                                                       2520
 gagctacaag atcagcttga agctgagcaa tatttctcga cactttataa aacccaggta
                                                                       2580
 aaggaactta aagaagaaat tgaagaaaaa aacagagaaa atttaaagaa aatacaggaa
                                                                       2640
 ctacaaaatg aaaaagaaac tettgetaet eagttggate tageagaaac aaaagetgag
                                                                       2700
 tctgagcagt tggcgcgagg ccttctggaa gaacagtatt ttgaattgac gcaagaaagc
                                                                       2760
 aagaaagetg etteaagaaa tagacaagag attacagata aagateacae tgttagtegg
                                                                       2820
 cttgaagaag caaacagcat gctaaccaaa gatattgaaa tattaagaag agagaatgaa
                                                                       2880
 gagctaacag agaaaatgaa gaaggcagag gaagaatata aactggagaa ggaggaggag
                                                                       2940
 atcagtaatc ttaaggctgc ctttgaaaag aatatcaaca ctgaacgaac ccttaaaaca
                                                                       3000
 caggotgtta acaaattggc agaaataatg aatcgaaaag attttaaaat tgataqaaag
                                                                       3060
 aaagctaata cacaagattt gagaaagaaa gaaaaggaaa atcgaaagct gcaactggaa
                                                                       3120
 ctcaaccaag aaagagagaa attcaaccag atggtagtga aacatcagaa ggaactgaat
                                                                       3180
 gacatgcaag cgcaattggt agaagaatgt gcacatagga atgagcttca gatgcagttg
                                                                       3240
 gccagcaaag agagtgatat tgagcaattg cgtgctaaac ttttggacct ctcggattct
                                                                       3300
 acaagtgttg ctagttttcc tagtgctgat gaaactgatg gtaacctccc agagtcaaga
                                                                       3360
```

マ゙ひ フンバンマムロン A しん/ いいとい/ A TU/ 2

3420

3480

3540

3600

3660

3720

3780

3840

3900

3960

4020

4065

1997 可是自己的 Babble 1995 1995 1995

(1) 其外、多点的数数点点点数

· 在一直在前上的基础的。如

```
attgaaggtt ggctttcagt accaaataga ggaaatatca aacgatatgg ctggaagaaa
  cagtatgttg tggtaagcag caaaaaaatt ttgttctata atgacgaaca agataaggag
  caatccaatc catctatggt attggacata gataaactgt ttcacgttag acctgtaacc
  caaggagatg tgtatagagc tgaaactgaa gaaattccta aaatattcca gatactatat
  gcaaatgaag gtgaatgtag aaaagatgta gagatggaac cagtacaaca agctgaaaaa
  actaatttcc aaaatcacaa aggccatgag tttattccta cactctacca ctttcctgcc
  aattgtgatg cetgtgeeaa acetetetgg catgttttta agecaceece tgeeetagag
  tgtcgaagat gccatgttaa gtgccacaga gatcacttag ataagaaaga ggacttaatt
  tgtccatgta aagtaagtta tgatgtaaca tcagcaagag atatgctgct gttagcatgt
  totcaggatg aacaaaaaa atgggtaact catttagtaa agaaaatccc taagaatcca
  ccatctggtt ttgttcgtgc ttcccctcga acgctttcta caagatccac tgcaaatcag
  tctttccgga aagtggtcaa aaatacatct ggaaaaacta qttaa
             <210> 158
             <211>--1354---
             <212> PRT
             <213> Homo Sapiens
             <400> 158
  Met Ser Thr Gly Asp Ser Phe Glu Thr Arg Phe Glu Lys Met Asp Asn
  Leu Leu Arg Asp Pro Lys Ser Glu Val Asn Ser Asp Cys Leu Leu Asp
                   Gly Leu Asp Ala Leu Val Tyr Asp Leu Asp Phe Pro Ala Leu Arg Lys
                                                                                            45
  Asn Lys Asn Ile Asp Asn Phe Leu Ser Arg Tyr Lys Asp Thr Ile Asn
                                               55
 Lys Ile Arg Asp Leu Arg Met Lys Ala Glu Asp Tyr Glu Val Val Lys
 ិ65 មានទទួលមើសស្រែក 🔭 💎 💎 💎 🕏
                                                                           75
Val Ile Gly Arg Gly Ala Phe Gly Glu Val Gln Leu Val Arg His Lys
 20-1 NA - $444 B 185
                                                          90
                                                                                                          95
 Ser Thr Arg Lys Val Tyr Ala Met Lys Leu Leu Ser Lys Phe Glu Met
TO TE TO LESS TO $4007 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100 | $ 100
  Ile Lys Arg Ser Asp Ser Ala Phe Phe Trp Glu Glu Arg Asp Ile Met
                 115
                                                      120
  Ala Phe Ala Asn Ser Pro Trp Val Val Gln Leu Phe Tyr Ala Phe Gln
                                               135
                                                                                    140
  Asp Asp Arg Tyr Leu Tyr Met Val Met Glu Tyr Met Pro Gly Gly Asp
                                        150
                                                                             155
  Leu Val Asn Leu Met Ser Asn Tyr Asp Val Pro Glu Lys Trp Ala Arg
                                                                     170
  Phe Tyr Thr Ala Glu Val Val Leu Ala Leu Asp Ala Ile His Ser Met
                                                               185
   Gly Phe Ile His Arg Asp Val Lys Pro Asp Asn Met Leu Leu Asp Lys
                                                       200
   Ser Gly His Leu Lys Leu Ala Asp Phe Gly Thr Cys Met Lys Met Asn
                                               215
                                                                                    220
   Lys Glu Gly Met Val Arg Cys Asp Thr Ala Val Gly Thr Pro Asp Tyr
                                        230
                                                                             235
   Ile Ser Pro Glu Val Leu Lys Ser Gln Gly Gly Asp Gly Tyr Tyr Gly
                                 245
                                                                      25.0
   Arg Glu Cys Asp Trp Trp Ser Val Gly Val Phe Leu Tyr Glu Met Leu
                                                              265
   Val Gly Asp Thr Pro Phe Tyr Ala Asp Ser Leu Val Gly Thr Tyr Ser
```

280

275

	Lys		Met	Asn .	Hls .			ser .	Leu	Inr		300	ASP	Asp	ASII	Asp					
	Ile	290	T	~3.,	י הוא		295 Nga 1	Leu '	מבד	Cva			T.e.11	ጥክኍ	Δen	Δνα					
	305	ser	-	Giu.		шув 310															
	Glu	1751																			
	GIU	vai	nry .		325	****		- 1		330	-		-1-		335						
	Phe	Phe	Lvs .			Gln	Trp .	Ala			Thr :	Leu .	Arq			Val					
					F																
	Ala	Pro																	•		
•			355			-		360		_			365					٠.,			
	Asp	Asp	Leu	Glu	Glu	Asp	Lys	Gly	Glu	Glu	Glu	Thr	Phe	Pro	Ile	Pro					
		370					375					380									
	Lys	Ala	Phe	Val	Gly	Asn	Gln	Leu	Pro	Phe	Val	Gly	Phe	Thr	Tyr	Tyr					
	385					390					395					400					
	Ser	Asn	Arg-		Tyr		Ser	Ser			Pro	Asn_	Asp.	.Asn_		_Thr_					
					405					410	_	_		_	415	7					
	Ser	Ser			Asp	Lys	Ser			Glu	Ser	Leu	GIn		Thr	Ile					
		_		420		~3	_		425	a 1	37 - 1 -	~ 1	.	430		a 1					
	Tyr	-		Glu	Glu	GIn			Asn	GIU	Met		ьеи 445	гуs	Asp	GIU					
	Mah		435	Tara	Cys	70 ***		440	λen	Tla	Larg			Lare	Tla	Met			-		
	Met	450	GTII	пÀг	Cys		455		Apm	176		460	Map	пуз	116	Mec					
	.Taze		.I.e.11	.Asn	Glu				Gln	Ara.			Leu.	Glu	Ser.	Thr					
. ,	465	GLU	пса	nop		470	O±3				475					480					
		Ser	Gln	Ile	Glu		Glu	Lys	Met			Gln	His	Arg	Ile						
					485	•								_	495						
	Glu	Tyr	Gln.	Arg	Lys	Ala	Glu	Gln	Glu	Asn	Glu	Lys	Arg	Arg	Asn	Val					
		_		500					505					.510							
	Glu	Asn	Glu	Val	Ser	Thr	Leu	Lys	Asp	Gln	Leu	Glu	Asp	Leu	Lys	Lys	-				
	٠.				• • •																
	Val																		٠.	• •	
$(\mathcal{A}(x), e^{x^2})(x_{\lambda_1}, \dots, x_{\lambda_n})$	V																				rang "
tide of the control	_		Leu	Glu	Glu								Glu	Ser	Asp			•		•	\$ 250.00
	545			•		550			m)		555		T	Com	тан	560					
	Ala	vaı	Arg	ьeu	565	ьуs	ser	HIS	Thr	570	Mec	ser	гу	Ser	575					*	
	۵1 n	τ ου	Cl.	Cor	Leu	λαn	λrα	Gl 11	T.e.11		Glu	Ara	Δen	Δνα							
	GIII	neu	. GIU	580		ASII	arg	GIU	585		GIU	9	7.011	590		Deu					
	Glu	Asn	Ser		Ser	Gln	Thr	Asp			Tyr	Tyr	Gln			Ala					
			595	_				600	2	-	-	-	605								
	Ile	Leu			Glu	Arg	Arg	Asp	Arg	Gly	His	Asp	Ser	Glu	Met	Ile	:				
		610					615					620									
	Gly	Asp	Leu	Gln	Ala	Arg	Ile	Thr	Ser	Leu	Gln	Glu	Glu	Val	Lys	His	1				
	625					630					635					640		•			•
	Leu	Lys	: His	Asn	Leu	Glu	Lys	Val	Glu			Arg	Lys	Glu			L				
					645					650					655						
	Asp	Met	: Leu		h His	Ser	Glu	Lys			Asn	Asn	Lev			a Asp)				
				660				_	665		_			670							
	Let	ı Asr	-	_	s Lev	ı Lys	s Ser			ı Glm	Arg	Leu			ı Gli	ı Val	-				
	_		675			er:		680			mla	7	685		. ~1		_				
	Asr	ı Glı	a His	ь Гуя	s Val	LTni	_		Arg	у тел	ıınr			s HlS	s GII	ıser	-				
			^				605					700	1								
	ተገ-	690		. ጉገ-	. T		695 		Ma+	- (1,10		700		1 T.326	2 Tazz	e Ter	,				٠
	Ile 705	e Glu		ı Ala	a Lys			Ala	Met	Cys	Glu 715	Met		ı Lys	E Ly:	s Lei 720					

・エノ レロノロ/スマロ / ノ

```
VY U 22/10/2003 A U 1/10/2001/2012
```

Asp Ile Asp Lys Leu Phe His Val Arg Pro Val Thr Gln Gly Asp Val 1175 Tyr Arg Ala Glu Thr Glu Glu Ile Pro Lys Ile Phe Gln Ile Leu Tyr 1190 1195 Ala Asn Glu Gly Glu Cys Arg Lys Asp Val Glu Met Glu Pro Val Gln 1205 1210 Gln Ala Glu Lys Thr Asn Phe Gln Asn His Lys Gly His Glu Phe Ile 1220 Pro Thr Leu Tyr His Phe Pro Ala Asn Cys Asp Ala Cys Ala Lys Pro 1240 1245 Leu Trp His Val Phe Lys Pro Pro Pro Ala Leu Glu Cys Arg Arg Cys 1250 1255 His Val Lys Cys His Arg Asp His Leu Asp Lys Lys Glu Asp Leu Ile 1270 1275 Cys Pro Cys Lys Val Ser Tyr Asp Val Thr Ser Ala Arg Asp Met Leu 1285 1290 1295 Leu Leu Ala Cys Ser Gln Asp Glu Gln Lys Lys Trp Val Thr His Leu 1300 1305 Val Lys Lys Ile Pro Lys Asn Pro Pro Ser Gly Phe Val Arg Ala Ser 1320 Pro Arg Thr Leu Ser Thr Arg Ser Thr Ala Asn Gln Ser Phe Arg Lys 1335 Val Val Lys Asn Thr Ser Gly Lys Thr Ser 1350

<210> 159
<211> 683
<212> DNA
<213> Homo Sapiens

<400> 159

acaagetgga-gttegageet gaeagtgagg-acaagatete ggaetgtgag gaaggattga ... 60000 0... 00000 aggeacegge atcecetggt getggaaace cacetgggae cecaaaggga aagagagage 180 八年 tgatgagcaa tggcccaggt tccattattg gtgctaaagc tgggaagaat tctggcaaaa 240 etc agaagggeet taacaatgaa etgaacaace ttecagtaat etecaacatg aeggetgegt 300 tagacagttg ctcggcagca gacggcagtt tggctgctga gatgcctaaa ctggaagcag 360 aaggattaat tgacaagaaa aatttaggag ataaagaaaa gggcaaaaaa gctaacaact 420 gcaaaacgga caaaaacctc tctaaactga aaagtgcccg gcccattgcc cctgccccag 480 eccecactee eccecageta ategetatae ecactgeaac etttacaacg accaccactg 540 ggacaatacc cggactgccc tccctcacaa caactgttgt tcaqqctaca ccaaaqagtc 600 ctccgttaaa acccattcaa ccaaagccca caattatggg agagcccatc accgtgaacc 660 cagetetggt gteacteaaa gae 683

Charles Ser

<210> 160 <211> 227 <212> PRT <213> Homo Sapiens

<400> 160

Lys Leu Glu Phe Glu Pro Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu

1 5 10 15

Glu Gly Leu Ser Asn Val Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser
20 25 30

Val Ser Ala Tyr Asp Gln Leu Lys Ala Pro Ala Ser Pro Gly Ala Gly

```
40
         Asn Pro Pro Gly Thr Pro Lys Gly Lys Arg Glu Leu Met Ser Asn Gly
                                55
         Pro Gly Ser Ile Ile Gly Ala Lys Ala Gly Lys Asn Ser Gly Lys Lys
                                               75
         Lys Gly Leu Asn Asn Glu Leu Asn Asn Leu Pro Val Ile Ser Asn Met
         Thr Ala Ala Leu Asp Ser Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala
                    100
         Glu Met Pro Lys Leu Glu Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu
                                    120
                                                       125
         Gly Asp Lys Glu Lys Gly Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys
                                135
         Asn Leu Ser Lys Leu Lys Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala
         Pro Thr Pro Pro Gln Leu Ile Ala Ile Pro Thr Ala Thr Phe Thr
                        165
                                           170
         Thr Thr Thr Gly Thr Ile Pro Gly Leu Pro Ser Leu Thr Thr Thr Val
                                        185
         Val Gln Ala Thr Pro Lys Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys
                                    200
         Pro Thr Ile Met Gly Glu Pro Ile Thr Val Asn Pro Ala Leu Val Ser
             210 220
         Leu Lys Asp
         225
               <210> 161
               <211> 662
Control of March 1985
               <212> DNA
        <213> Homo Sapiens
                   A [
             <400> 161
       acccacagea gttgcacttg ctgagcagge agettgagga cecaaatggt, agetttteta
                                                                            . 60<sub>.</sub> to go 44.
         acgctgagat gagtgaactg agtgtggcac agaaaccaga aaaacttttg gagcgctgca
                                                                            120
         agtactggcc tgcttgtaaa aatggggatg agtgtgccta ccatcacccc atctcaccct
                                                                            180
         gcaaagcctt ccccaattgt aaatttgctg aaaaatgttt gtttgttcac ccaaattgta
                                                                             240
         aatatgatgc aaagtgtact aaaccagatt gtcccttcac tcatgtgagt agaagaattc
                                                                            300
         cagtactgtc tecaaaacca gttgcaccac cagcaccacc ttccagtagt cagctctgcc
                                                                             360
         gttacttccc tgcttgtaag aagatggaat gtcccttcta tcatccaaaa cattgtaggt
                                                                             420
         ttaacactca atgtacaaga ccggactgca cattctacca tcccaccatt aatgtcccac
                                                                             480
         cacgacatgo ottgaaatgg attogacoto aaaccagoga atagcacoca gtootgootg
                                                                             540
         gcagaagatc atgcagtttg gaagttttca tgtctgatga aagatctcta cagaacttgt
                                                                             600
         caaatctttg aaacttggaa tatattgctt tcataatatg aaggtttatt ggctatctaa
                                                                             660
                                                                             662
               <210> 162
               <211> 173
               <212> PRT
               <213> Homo Sapiens
               <400> 162
         Pro Gln Gln Leu His Leu Leu Ser Arg Gln Leu Glu Asp Pro Asn Gly
                          5
         Ser Phe Ser Asn Ala Glu Met Ser Glu Leu Ser Val Ala Gln Lys Pro
```

30

25

20

₩U 37/04207 X CA/00201A TO A CA/002

```
Glu Lys Leu Leu Glu Arg Cys Lys Tyr Trp Pro Ala Cys Lys Asn Gly
                            40
 Asp Glu Cys Ala Tyr His His Pro Ile Ser Pro Cys Lys Ala Phe Pro
                                          Asn Cys Lys Phe Ala Glu Lys Cys Leu Phe Val His Pro Asn Cys Lys
                    70
                                        75
 Tyr Asp Ala Lys Cys Thr Lys Pro Asp Cys Pro Phe Thr His Val Ser
                            90
                                         ----95 ---
                 85 "
 Arg Arg Ile Pro Val Leu Ser Pro Lys Pro Val Ala Pro Pro Ala Pro
                                105
 Pro Ser Ser Ser Gln Leu Cys Arg Tyr Phe Pro Ala Cys Lys Lys Met
                             120
                                                125
 Glu Cys Pro Phe Tyr His Pro Lys His Cys Arg Phe Asn Thr Gln Cys
                         135
-- Thr Arg Pro Asp Cys Thr Phe Tyr His Pro Thr He Asn Val Pro Pro Pro --
                                        155
                                                           160
 Arg His Ala Leu Lys Trp Ile Arg Pro Gln Thr Ser Glu
                 165
       <210> 163
       <211> 2912
       <212> DNA
       <213> Homo Sapiens - - -
```

<400> 163

cagttgcttc agcgtcccgg tgtggctgtg ccgttggtcc tgtgcggtca cttagccaag 60 atgcctgagg aaacccagac ccaagaccaa ccgatggagg aggaggaggt tqaqacqttc 120 geettteagg cagaaattge ceagttgatg teattgatea teaataettt etactegaac 180 aaagagatet ttetgagaga geteatttea aatteateag atgeattgga caaaateegg 240 tatgaaactt tgacagatcc cagtaaatta gactctggga aagagctgca tattaacctt 300 ataccgaaca aacaagatcg aactotcact attgtggata ctggaattgg aatgaccaag 360 getgaettga teaataacet tggtaetate gecaagtetg ggaecaaage gtteatggaa 420 getttgeagg etggtgeaga tatetetatggattggeeagt teggtgttgg titttattet 480 gcttatttgg ttgctgagaa agtaactgtg atcaccaaac ataacgatga tgagcagtac 540 gcttgggagt cctcagcagg gggatcattc acagtgagga cagacacagg tgaacctatq 600 gqtcqtqqaa caaaaqttat cctacacctg aaagaagacc aaactqagta cttqqaqqaa 660 cgaagaataa aggagattgt gaagaaacat tctcagttta ttggatatcc cattactctt 720 tttgtggaga aggaacgtga taaagaagta agcgatgatg aggctgaaga aaaggaagac 780 aaagaagaag aaaaagaaaa agaagagaaa gagtcggaag acaaacctga aattgaagat 840 gttggttctg atgaggaaga agaaaagaag gatggtgaca agaagaagaa gaagaagatt 900 960 cccgacqata ttactaatga ggagtacgga gaattctata agagettgac caatqactqq 1020 gaagatcact tggcagtgaa gcatttttca gttgaaggac agttggaatt cagagccctt 1080 ctatttgtcc cacgacgtgc tccttttgat ctgtttgaaa acagaaagaa aaagaacaat 1140 atcaaattgt atgtacgcag agttttcatc atggataact gtgaggagct aatccctgaa 1200 tatctgaact tcattaqaqq ggtggtagac tcggaggatc tccctctaaa catatcccqt 1260 gagatgttgc aacaaagcaa aattttgaaa gttatcagga agaatttggt caaaaaatgc 1320 ttagaactct ttactgaact ggcggaagat aaagagaact acaagaaatt ctatgaqcaq 1380 ttctctaaaa acataaagct tggaatacac gaagactctc aaaatcggaa gaagctttca 1440 gagetgttaa ggtactacac atetgeetet ggtgatgaga tggtttetet caaggaetae 1500 tgcaccagaa tgaaggaqaa ccagaaacat atctattata tcacaggtga qaccaaqqac 1560 caggtagcta actcagcctt tgtggaacgt cttcggaaac atggcttaga agtgatctat 1620 atgattgage ceattgatga gtactgtgte caacagetga aggaatttga ggggaagaet 1680 ttagtgtcag tcaccaaaga aggcctggaa cttccagagg atgaagaaga gaaaaagaag 1740 caggaagaga aaaaaacaaa gtttgagaac ctctgcaaaa tcatgaaaga catattggaq 1800

```
aaaaaagttg aaaaggtggt tgtgtcaaac cgattggtga catctccatg ctgtattgtc
                                                                     1860
acaagcacat atggctggac agcaaacatg gagagaatca tgaaagctca agccctaaga
                                                                      1920
gacaactcaa caatgggtta catggcagca aagaaacacc tggagataaa ccctgaccat
                                                                     1980
tccattattg agaccttaag gcaaaaggca gaggctgata agaacgacaa gtctgtgaag
                                                                     2040
gatctggtca tettgettta tgaaactgeg eteetgtett etggetteag tetggaagat
                                                                     2100
ccccagacac atgctaacag gatctacagg atgatcaaac ttggtctggg tattgatgaa
                                                                      2160
gatgacccta ctgctgatga taccagtgct gctgtaactg aagaaatgcc accccttgaa
                                                                      2220
ggagatgacg acacatcacg catggaagaa gtagactaat ctctggctga gggatgactt
                                                                     2280
acctgttcag tactctacaa ttcctctgat aatatatttt caaggatgtt tttctttatt
                                                                     2340
tttgttaata ttaaaaagtc tgtatggcat gacaactact ttaaggggaa gataagattt
                                                                      2400
ctgtctacta agtgatgctg tgatacctta ggcactaaag cagagctagt aatgctttt
                                                                     2460
gagtttcatg ttggttcttt cacagatggg gtaacgtgca ctgtaagacg tatgtaacat
                                                                     2520
gatgttaact ttgtgtggtc taaagtgttt agctgtcaag ccggatgcct aagtagacca
                                                                     2580
aatcttgtta ttgaagtgtt ctgagctgta tcttgatgtt tagaaaagta ttcgttacat
                                                                     2640
ettgtaggat ctactttttg aacttttcat tccctgtagt tgacaattct gcatgtacta
                                                                     2700
gtcctctaga aataggttaa actgaagcaa cttgatggaa ggatctctcc acagggcttg
                                                                     2760
ttttccaaag aaaagtattg tttggaggag caaagttaaa agcctaccta agcatatcqt
                                                                     2820
aaagctgttc aaatactcga gcccagtctt gtggatggaa atgtagtgct cgagtcacat
                                                                     2880
tctgcttaaa gttgtaacaa atacagatga gt
                                                                      2912
```

<210> 164

<211> 732

<212>- PRT-

<213> Homo Sapiens

<400> 164

Met 1	Pro			Thr 5		Thr	Gln	Asp	Gln 10	Pro	Met	Glu	Glu	Glu 15	Glu
Val	Glu					Gl'n	Ala	Glu		Δla	Gln	T.211	Mot		T 011
		3.13	2.0	1	10.2		,	25			OIII	neu .	30	Ser.	Leu
Ile	Ile	Asn	Thr	Phe	Tvr	Ser	Asn	Lvs	Clu	Tle	Dhe	Len		C1	T
						1. 17					1110	45	Arg	Gru	Leu
Ile	Ser	Asn	Ser	Ser	Asp	Ala							Glu	Thr	Leu
	50					55					60			•	
Thr 65	Asp	Pro	Ser	Lys		Asp		Gly	Lys	Glu 75	Leu	His	Ile	Asn	Leu 80
Ile	Pro	Asn	Lys	Gln 85	Asp	Arg	Thr	Leu	Thr 90	Ile	Val	Asp	Thr	Gly 95	Ile
Gly	Met	Thr	Lys 100	Ala	Asp	Leu	Ile	Asn 105	Asn	Leu	Gly	Thr	Ile 110		Lys
Ser	Gly	Thr 115	Lys	Ala	Phe	Met	Glu 120		Leu	Gln	Ala	Gly 125		Asp	Ile
Ser	Met 130		Gly	Gln	Phe	Gly 135		Gly	Phe	Tyr			Tyr	Leu	Val
Ala	Glu	Lvs	Va l	Thr	Val	Ile	Thr	Tive	Hic			Nan	C1.,	<i>α</i> 1	TT1= ===
145					150			272	*****	155	rsp.	rsp	GIU	GIII	160
Ala	Trp	Glu	Ser	Ser 165	Ala	Gly			Phe		Val	Arg	Thr	Asp 175	
Gly	Glu	Pro	Met 180	Gly		Gly			Val	Ile	Leu	His	Leu 190		Glu
Asp	Gln	Thr 195		Tyr	Leu	Glu	Glu 200				Lys			Val	Lys
Lys	His 210		Gln	Phe	Ile	Gly 215	Tyr		Ile		Leu 220	205 Phe	Val	Glu	Lys
Glu		Asp	Lys	Glu	Val	Ser						Glu	Lys	Glu	Asp

10.79104203

	•																	
		225					230					235					240	
		Lys	Glu	Glu	Glu	Lys 245	Glu	Lys	Glu		Lys 250	Glu	Ser	Glu	Asp	Lys 255	Pro	
		Glu-	·Ile	Glu	Asp 260		Gly:	Ser	Asp			Glu	Glu	_	Lys 270		-Gl-y	
		Asp	Lys	Lys 275			Lys	Lys	Ile 280		Glu	Lys	Tyr		Asp	Gln	Glu	
		Glu			Lys	Thr	Lys		Ile	Trp	Thr	Arg-				Asp	Ile-	
			290 Asn	Glu	Glu	Tyr		295 Glu		Tyr	Lys		300 Leu	Thr	Asn	Asp	_	
		305 Glu	Asp	His	Leu		310 Val	Lys	His	Phe		315 Val	Glu	Gly	Gln		320 Glu	
			_					Val		_	_				_			
destinate and mortina green		•		Arg				Asn	Asn									
		Phe			Asp	Asn	Cys	Glu	360 Glu	Leu	Ile	Pro	Glu	365 Tyr	Leu	Asn	Phe	
		Ile	370 Arg		Val	Val	Asp	375 Ser	Glu	Asp	Leu	Pro	380 Leu	Asn	Ile	Ser	Arg	
		385 Glu	Met	Leu	Gln	Gln	390 Ser	Lys	Ile	Leu	Lys	395 Val	Ile	Arg	Lys	Asn	400 Leu	
		 Val	Lys	Lys	Cys			Leu									Glu	
		Asn	Tyr	Lys	420 Lys	Phe	Tyr	Glu	Gln	425 Phe	Ser	Lys	Asn	Ile	430 Lys	Leu	Gly	
		Ile	His	435 Glu		Ser	Gln	Asn	440 Arg	Lys	Lys	Leu	Ser	445 Glu	Leu	Leu	Arg	
		· ·	450					455		_	-		460					
* •									Asp	Glu	Met		Ser			-	-	Section 2
•	ineri.						470					475			٠.			***
	4.25	_		_		_		Asn	Gln	Lys			Tyr	Tyr	Ile		-	
\$40 D									_	_	490				_		<i>;</i>	C 15.7
N .	·· .	• • •			500					505					510			
				515				Ile	520				·	525	_		_	
		Cys	Val 530		Gln	Leu	Lys	Glu 535		Glu	Gly	Lys	Thr 540		Val	Ser	Val	
		Thr 545		Glu	Gly	Leu	Glu 550	Leu	Pro	Glu	Asp	Glu 555		Glu	Lys	Lys	Lys 560	
		Gln	Glu	Glu	Lys	Lys 565		Lys	Phe	Glu	Asn 570		Суѕ	Lys	Ile	Met 575	-	
. •		Asp	Ile	Leu	Glu 580	_	Lys	Val	Glu	Lys 585		Val	Val	Ser	Asn 590	_	Leu	
		Val	Thr	Ser 595		Cys	Cys	Ile	Val 600		Ser	Thr	Tyr	Gly 605	~	Thr	Ala	
		Asn	Met 610		Arg	Ile	Met	Lys 615		Gln	Ala	Leu	Arg 620	_	Asn	Ser	Thr	
		Met 625		туг	Met	Ala	Ala 630	Lys)	Lys	His	Leu	Glu 635		Asn	Pro	Asp	His 640	
				e Ile	e Glu	Thr 645	Leu		Gln	Lys	Ala 650	a Glu		Asp	Lys	Asn 655	Asp	
		Lys	s Ser	r Val	Lys 660	Asp		ı Val	_Ile	Leu 665	Lei		Glu	Thr	Ala 670	. Leu	Leu	

```
Ser Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr His Ala Asn Arg Ile
       675
Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu Asp Asp Pro Thr
        700 ... -
Ala Asp Asp Thr Ser Ala Ala Val Thr Glu Glu Met Pro Pro Leu Glu
                   710
                                       715
Gly Asp Asp Asp Thr Ser Arg Met Glu Glu Val Asp
          ......725
                                   730
     <210> 165
     <211> 790
     <212> DNA
     <213> Homo Sapiens
-- <400>-165----
ccgactcaga aatggcggcc tccatgttct acggcaggct agtggccgtg gccacccttc
                                                                     60
ggaaccaccg gcctcggacg gcccagcggg ctgctgctca ggttctggga agttctggat
                                                                     120
tgtttaataa ccatggactc caagtacagc agcaacagca aaggaatctc tcactacatg
                                                                     180
aatacatgag tatggaatta ttgcaagaag ctggtgtctc cgttcccaaa ggatatgtgg
                                                                     240
caaagtcacc agatgaagct tatgcaattg ccaaaaaatt aggttcaaaa gatgtcgtga
                                                                     300
taaaggcaca ggttttagct ggtggtagag gaaaaggaac atttgaaagt ggcctcaaag
                                                                     360
gaggagtgaa gatagttttc tctccagaag aagcaaaagc tgtttcttca caaatgattg
                                                                     420
ggaaaaaatt gtttaccaag caaacgggag aaaagggcag aatatgcaat caagtattgg
                                                                    480
tetgtgageg aaaatateee aggagagaat actaetttge aataacaatg gaaaggteat
                                                                     540
ttcaaggtcc tgtattaata ggaagttcac atggtggtgt caacattgaa gatgttgctg
                                                                     600
ctgagtctcc tgaagcaata attaaagaac ctattgatat tgaagaaggc atcaaaaagg
                                                                     660
aacaagetet teagettgea cagaagaatg ggattteece taatattgng ggaateagea
                                                                     720
gcaggaaaac atggtcaagc tttacagnon ttttcttgaa atacgatgca acccttgata
                                                                     780
ggaaattaaa
                       5 mar 125
                                                                     790
                  BOOK NOW AND DESCRIPTION
                      <210> 166
     <211> 259
                      and the American State of the
     <212> PRT
     <213> Homo Sapiens
      <400> 166
Asp Ser Glu Met Ala Ala Ser Met Phe Tyr Gly Arg Leu Val Ala Val
                5
                                   10
Ala Thr Leu Arg Asn His Arg Pro Arg Thr Ala Gln Arg Ala Ala
                               25
Gln Val Leu Gly Ser Ser Gly Leu Phe Asn Asn His Gly Leu Gln Val
                           40
Gln Gln Gln Gln Arg Asn Leu Ser Leu His Glu Tyr Met Ser Met
                       55
Glu Leu Leu Gln Glu Ala Gly Val Ser Val Pro Lys Gly Tyr Val Ala
                   70
                                       75
Lys Ser Pro Asp Glu Ala Tyr Ala Ile Ala Lys Lys Leu Gly Ser Lys
Asp Val Val Ile Lys Ala Gln Val Leu Ala Gly Gly Arg Gly Lys Gly
            100
                               105
Thr Phe Glu Ser Gly Leu Lys Gly Gly Val Lys Ile Val Phe Ser Pro
                           120
                                               125
Glu Glu Ala Lys Ala Val Ser Ser Gln Met Ile Gly Lys Lys Leu Phe
                                           140 .
```

77 シンノンマルシン

Thr Lys Gln Thr Gly Glu Lys Gly Arg Ile Cys Asn Gln Val Leu Val

```
150
                                        155
Cys Glu Arg Lys Tyr Pro Arg Glu Tyr Tyr Phe Ala Ile Thr Met
                                    170
Glu Arg Ser Phe Gln Gly Pro Val Leu Ile Gly Ser Ser His Gly Gly
                                185
Val Asn Ile Glu Asp Val Ala Ala Glu Ser Pro Glu Ala Ile Ile Lys
                            200
Glu Pro Ile Asp Ile Glu Glu Gly Ile Lys Lys Glu Gln Ala Leu Gln
                        215
Leu Ala Gln Lys Asn Gly Ile Ser Pro Asn Ile Gly Ile Ser Ser Arg
                   .230
                                        235
Lys Thr Trp Ser Ser Phe Thr Phe Leu Lys Tyr Asp Ala Thr Leu Asp
                245
                                    250
Arg Lys Leu
```

<210> 167 <211> 5307 <212> DNA <213> Homo Sapiens

<400> 167

₹₹*₩ プラ*∤♥₹₩₩₩

-gaataacagt-taagttttgg ggagtaaaaa ctgtttcaat-ttttgactgt gttgggggtt - 60 ggtgctccta atccctgtgt tgttaaaggg tcgactatat tgtatttttg aaaattgcta gagagtggac gtaaagtgtt ctcactaaac aaattataac tatgtgaggt aqtqcatata 180 ttaagtagct agatttggtc attccacaat gtatatgtac ttcaaaacat catqttqtac 240 atgagaaaca cagttttatc tgttagtcag ttttaaaaaat aaaaaatatt ccaactagaa 300 actetyttyt agtittitgaa attacaacti ggaggettig aggaactgat tagaaqtete 360 ctttctgttt caggetttca tatccaaacc atagatettt agaagtaaca tetgttaatt jaga420tit caggetttca aattattaat, aaatagtttg agtotttatt äättoatgga taaottgaco attttototo 2 20480490 Adag 2 A tccttttgct tagataatec cagatcatgg ccgggcacag tagctcacgc ctgtattccc 540@st. 3 1480 ageagtiting gaggeogagg caggeagate actinaacte and ageagtiting gaccaneting and 600 mag garage research ggcaacatgg caaaaccctg tctctattaa aaatacaaaa attagctggg catggtagtg 1.4 **6.60**% gg | Malabatan catgcctgta gtcccagcta cctgggaggc tgaggtggga ggatcgcttg aqcctqqqaq 720 gttgaggett etgtgegega tgattgetee agtgateaeg eeattgeaet eeageetggg tgacagagtg agaccetgte tecaaaaaaa aaaaaaatta agcaagtage agttacaaga 840 ccaaaagtta ttttcctttt ttttttctc tataaaattg cccatftgga ccaaatctag 900 ttataactta tttcagtgtc attaagaaag ttgatgaata agtcatatta ctcagatgtt 960 agtagctatg catttattaa tagttttatt tataagtatt tagtttcact ctgttgcaga 1020 ctattttatg ctaaaattag ctaaagccaa attactattt cttaaaacat atttttact 1080 tttttttttt ttttaaatat tattaggtac ttcttgcaag ggatatgcat tagcacatac 1140 tcaagaaggg gaagaaaaga agcaaacttc tggtacatca aataccagag gatcaagacg 1200 aaaacctgca atgacaactc ctacaaggag gtctacacgt aacacaagag ctgaaacagc 1260 cagtcagtct cagagatccc caatatcaga caattctggg tgtgatgccc caggtaacaq 1320 taatccatct ttaagtgttc cctcttcagc tgagtcagaa aagcaaacaa gacaggctcc 1380 aaaacggaag tetgtaagaa gaggaagaaa accacettta etgaaaaaga aactteggag 1440 ctctgtagct gcccctgaaa aatcatcttc caatgattca qtaqatqaaq aaacaqcaqa 1500 atctgacaca tcacctgtgt tagaaaaaga gcaccaacca gatgtagaca gtagtaacat 1560 ttgtactgtg cagactcatg tagaaaacca gtctgctaat tgcttgaaaa gttgcaatga 1620 gcaaatagaa gaaagtgaga agcatactgc aaattatgat acagaggaaa gagtaggatc 1680 ttcatcttct gagtettgtg ctcaagatet teetgtgeta gttggtgagg aaggqqaagt 1740 taaaaaactc gagaatacag gtatagaggc taatgttttg tgtttggaaa gtgagatttc 1800 tgaaaatatt cttgaaaaag gaggtgatcc attggaaaag caagaccaga tatctggact 1860 ttcacaatca gaggtaaaga cagatgtatg tacagttcat cttccaaatg attttcctac 1920 atgtttaaca tetgaaagca aagtgtaeca acetgtatet tgteeectaa gtgaettate

1...

tgagaatgta gagtcagtgg ttaatgaaga aaaaataaca gagagttccc tagtagaaat 2040 tactgaacat aaagatttta cactaaaaac agaggagctt atagagagcc ccaagttaga 2100 atcttctgag ggtgaaatta tacagacagt ggacagacaa tctgttaaga gcccagaggt 2160 tcaattgctt gggcatgttg aaactgaaga tgtagaaata attgcaacat gtgatacttt 2220 tgggaatgaa gatttcaata atattcaaga ctctgaaaat aacttactaa aaaataatct 2280 tetgaacace aaattggaaa aatetttaga agaaaagaat gaategetga eegaacatee 2340 tagatetaca gagttgeeta aaacacacat tgaacagatt cagaagcatt ttagtgagga 2400 caacaatgaa atgataccta tggagtgtga ttcattttgc agtgaccaaa-atgaatctga-2460 agttgaacca totgtaaatg otgatottaa acaaatgaat gaaaattotg tgacacactg 2520 ttctgaaaat aatatgccgt cttctgatct tgcggatgaa aaggttgaaa ctgtttctca 2580 accatetgaa ageccaaaag ataccataga taaaaccaaa aageetegta etegaagate 2640 tagatttcat tetecateta caaettggte acceaacaaa gacaetecae aagaaaagaa 2700 geggeeceag tetecatete ecagaagaga aaetgggaaa gaaageagga agteteaate 2760 accatctect aagaatgagt cagecagagg ceggaaaaaa teeegttete agteeccaaa 2820 aaaggatatt-gcaagagaaa-ggaggcaatc-tcagtctcgg-tctccaaaaa-gggatactac-2880tagggaaagc agaagatetg aatcactgte eecaagaaga gaaactteta gagagaacaa 2940 aagatotoag ocaagagtga aagattotto occaggagaa aaatocaggt occagagoag 3000 agaacgagaa agtgatagag atgggcagag gagagagaga gaaaggagaa ccagaaagtg 3060 gtctaggtcc agatctcatt ctaggtcccc ctcaagatgt agaacaaaaa gtaagagttc 3120 atcatttggt agaattgaca gagatagtta ctctccccgg tggaagggaa gatgggcaaa 3180 tgatggttgg agatgtccac gaggaaatga tcggtacaga aagaatgacc cagagaaaca 3240 gaatgaaaat acaagaaaag aaaaaaatga catccatcta gatgctgatg atccaaattc 3300 tgctgacaaa catagaaatg-actgtcccaa ttggataaca gaaaaaataa actctgggcc 3360 tgatccaaga accagaaatc cagaaaagtt gaaagagtct cattgggaag aaaatagaaa 3420 tgaaaattca ggaaattctt ggaataaaaa ctttggttct ggttgggtat ctaaccgtgg 3480 tagaggcaga ggcaaccgtg gcagaggcac ttacagaagt agttttgcct ataaagatca 3540 gaatgaaaat cggtggcaaa atcgaaaacc cctctcaggg aattcaaaca gttcagggag 3600 tgaatettte aagtttgtgg aacageaate etataagega aaaagtgaae aggagttete 3660 atttgatada ccagcagata gatctggatg gacatctgca tccagctggg ccgtgagaaa 3720 · gactttgcca gcagatgtac aaaactacta ctcacgacga ggcagaaatt cttcaggtcc 3780 acagtetgga tggatgaaac aagaggagga aacatetgga caggatteta geetaaaaga 384050 ccaaacaaac cagcaagttg atggttetea getacetata aatatgatge aacegcaaat 3900 5 6 gaatgtaatg cagcaacaaa tgaatgcaca acaccagcct atgaatatct tcccatatcc 3960 ೇ ್ರೇ ಆ agtgggtgtt catgctcctt tgatgaacat ccaacgcaat ccatttaaca ttcatcctca 4020 getaceettg catetecaca caggagtgee ceteatgeag gtagecacte ctaccagtgt 4080 10 atctcaggga ctaccaccac caccacccc tccccacca tcccaacaag tcaactacat 4140 tgcttcacaa ccagatggaa agcaattgca gggtattcct agttcttctc atgtaagtaa 4200 taacatgagt acaccagttt tgcctgctcc gacagcagcc ccaggaaata cgggaatggt 4260 tcagggacca agttctggta atacttcgtc atcaagtcac agcaaagcct ctaatgctgc 4320 tgtaaaattg gcagaaagca aagtaagtgt tgcagtggaa gccagcgcag atagctcgaa 4380 gacagacaag aaattgcaaa ttcaagaaaa agcagcacaa gaggtaaaat tggccatcaa 4440 gccattttac caaaataaag atatcaccaa ggaagaatat aaagaaattg tacggaaagc 4500 agtagataaa gtttgtcata gtaagagtgg agaagtaaat tctactaaag tggcaaatct 4560 ggttaaagcc tatgtagaca aatacaaata ttcacggaag gggagccaaa agaaaactct 4620 ggaagaacct gtgtctactg aaaaaaacat aggctgaaat ggggaacgct gtcaaggaca 4680 ttatcaggat atctgcaaag tgcaatttca acatgtacca ttaactgaaa atcatacata 4740 actgtgattg aaatttggtt ttgataaaat tatttttta acataggata tgatgttttg 4800 ttctaaataa atataggtct gcactgcaac ttctgtatcc ttccttcccc tccaccctcc 4860 cccacaaaat tcaagggaaa gtaaagggtt taaaggaatg tgcatcttta ctaggactgt 4920 gttatagtgt ggatactgga aaatgtatag ctttttgatt agggcaatgg agtgcataaa 4980 ttagaaactt ctaagtgcac tggttttcaa agagatatat ataatgcatt tattctgtca 5040 ggttaaaata taaagtatga tetttatgat ttttteeete taattataga aagttaaata 5100 atgtattacc atgaaaaatg tttctaatat taaatagaac atatcagttg caaagttcct 5160 aatgtgtatt titaaagcac atatotgaat aaattgoota gatagaaaaa aaattatoac 5220 gagtaaaatt tagtgttcaa aacattgaaa cactcttcac ctattgtatg accaaataaa 5280

•						•						•	•			
	<2	10>	168		,							•				
	<2	11>	1148	}												
	<2	12>	PRT													
	<2	13.>	Homo	Sap	iens											
				-												
	<4	<00>	168													
Met				Thr	Arg	Ara	Ser	Thr	Ara	Asn	Thr	Ara	Ala	Glu	Thr	
1				5					10			5		15		
	Ser	Gln	Ser	_	Arg	Ser	Pro	Tle		Δαη	Agn	Ser	G1 v		Nen	
		0	20	V	3			25	501	11010	*****	001	30	Cys	nsp	
 -Δ.]-a	Dra-	Gl-v-		Ser-	Asn-	Dro-	Ser		Ser	Val-	-Dra-	Sor-	-	_გ_ე	Q1-1	
1114	110	35	71011	J C L			40	n-u	DCI	Val	110	45	DCL	Ала	GIU	
Ser	Glu		aln	Thr	Arg	Gln		Dro	Lare	λνα	Tare		₩.1	7.~~	7 ~~~	
ber	50	пуз	GIII	1 444	A+9	55	ALG	FIO	цуs	Arg	60	DCT	val	Arg	Arg	
Gly		Tare	Dro	Dro	Leu	-	Taro	Taro	T 7.0	T 011		C ~ ~	002	77-7	77.	
65	Ar 9	шуз	FIO	110	70	нец	шуз	цуз	шуъ	75	Arg	SEI	ser	vaı	80	
	Dro	Glu	Lare	Cor	Ser	Sar	N c n	y e.v.	802		7 cm	<i>C</i> 3.11	æ1.,	mb w		
ATG	PIO	Gru	пуъ	85	SEI	per	ASII	Asp	90	val	Asp	GIU	GIU		Ата	
C111	002	7 ~~	Thy		Dro	77 ~ 7	.T.o.u	01.	-	~1	TT d a		D	95	*** 7	•
GIU-	-ser	Asp		Ser.	·Pro-	·val ·	-beu-		гÀг	GIU	HIS	Gin		Asp	val ·	
7 00	Cor	002	100	T 1.	Crra	mb 24	77- T	105	ml	772 -	**- 1	a 1	110	~ 12		
Asp	ser		ASII	TTE	Cys	1111		GIII	THE	HIS	vaı		Asn	GIN	ser	
77.	7	115	T	T	C	0	120	01	G3	- 1 -	~ 1	125	~	~ 3	_	
Ala		Cys	neu	гуѕ	Ser				GIN	me		GIU	ser	Glu	Lys	
77	130			.		-	.				140	_	_	_	_	
	rnr	Ата	ASI		Asp											•
145	~				150											
GIU	ser	Cys	Ala		Asp									_	Glu	
**- *	.		- .		22. 4 •			-						175	_	
val	гÀг	гàг		GIU	Asn	umr	GIA.		GIU	Ala	Asn	Val		Cys	Leu	
~ 3	0	~ 1	180		~ 7 -			185	~-1	_	~ 7	~-3	190	_	_	
GIU	ser		TTE	Ser	Glu	Asn		Leu	GLu	Lys	GLY		Asp	Pro	Leu	
~ 2	-	195	_	~7			200	_	_		_	205		_		
GIU			Asp	Gin	Ile		GTA	Leu	Ser	GIn		GLu	Val	Lys	Thr	
_	210				•	215	_	_	_		220					ŕ
	vaı	Cys	Thr	val	His	Leu	Pro	Asn	Asp		Pro	Thr	Cys	Leu		
225	47		_		230	~ 7	_		_	235	_	_	_		240	
ser	GIU	ser	гуѕ		Tyr	Gin	Pro	vai		Cys	Pro	Leu	Ser	_		
~	63	•	•••	245	_			_	250		_			255		
Ser	GIU	Asn			Ser	Val	Val		Glu	Glu	Lys	Ile		Glu	Ser	
_	_		260		•	-		265					270			
Ser	Leu		GLu	Ile	Thr	Glu			Asp	Phe	Thr		Lys	Thr	Glu	
	_	275					280					285				
Glu			Glu	Ser	Pro		Leu	Glu	Ser	Ser			Glu	Ile	Ile	
_	290					295					300					
		Val	Asp	Arg		Ser	Val	Lys	Ser			Val	Gln	Leu	Leu	
305		_			310				•	315					320	
Gly	His	Val	Glu			Asp	Val	Glu	Ile	Ile	Ala	Thr	Cys	Asp	Thr	
				325					330		,			335		
Phe	Gly	Asn			Phe	Asn	Asn			Asp	Ser	Glu	Asn	Asn	Leu	
	_		340	•	_			345			•		3,50			
Leu	Lys	Asn	Asn	Leu	Leu	Asn	Thr	Lys	Leu	Glu	Lys	Ser	Leu	Glu	Glu	

TO A STATE OF THE STATE OF

Trees to 100 s. T. J. S.

on the other period and in

Commence Special Section

```
355
                           360
 Lys Asn Glu Ser Leu Thr Glu His Pro Arg Ser Thr Glu Leu Pro Lys
                       375
                                          380
 Thr His Ile Glu Gln Ile Gln Lys His Phe Ser Glu Asp Asn Asn Glu
                   390
                                      395
 Met Ile Pro Met Glu Cys Asp Ser Phe Cys Ser Asp Gln Asn Glu Ser
                                   410
 Glu Val Glu-Pro Ser Val Asn Ala Asp Leu Lys Gln Met Asn Glu Asn
                               425
 Ser Val Thr His Cys Ser Glu Asn Asn Met Pro Ser Ser Asp Leu Ala
                           440
 Asp Glu Lys Val Glu Thr Val Ser Gln Pro Ser Glu Ser Pro Lys Asp
                       455
 Thr Ile Asp Lys Thr Lys Lys Pro Arg Thr Arg Arg Ser Arg Phe His
 465-----470-----475-----
 Ser Pro Ser Thr Thr Trp Ser Pro Asn Lys Asp Thr Pro Gln Glu Lys
                                  490
 Lys Arg Pro Gln Ser Pro Ser Pro Arg Arg Glu Thr Gly Lys Glu Ser
                               505
 Arg Lys Ser Gln Ser Pro Ser Pro Lys Asn Glu Ser Ala Arg Gly Arg
                           520
 Lys Lys Ser Arg Ser Gln Ser Pro Lys Lys Asp Ile Ala Arg Glu Arg
    530 ---
                      535
 Arg Gln Ser Gln Ser Arg Ser Pro Lys Arg Asp Thr Thr Arg Glu Ser
                   550
                                      555
 Arg Arg Ser Glu Ser Leu Ser Pro Arg Arg Glu Thr Ser Arg Glu Asn
                565
                                  570
 Lys Arg Ser Gln Pro Arg Val Lys Asp Ser Ser Pro Gly Glu Lys Ser
 7.585 (福川県山580年 - 1997 585)
Arg Ser Gln Ser Arg Glu Arg Glu Ser Asp Arg Asp Gly Gln Arg Arg
1915 Acres #595(1), 18 1 1 2 9600 ...
                                              605
Glu Arg Glu Arg Arg Thr Arg Lys Trp Ser Arg Ser Arg Ser His Ser
620
 Arg Ser Pro Ser Arg Cys Arg Thr Lys Ser Lys Ser Ser Ser Phe Gly
 625
                  630 ·
                                      635
 Arg Ile Asp Arg Asp Ser Tyr Ser Pro Arg Trp Lys Gly Arg Trp Ala
                645
 Asn Asp Gly Trp Arg Cys Pro Arg Gly Asn Asp Arg Tyr Arg Lys Asn
            660
                              665
 Asp Pro Glu Lys Gln Asn Glu Asn Thr Arg Lys Glu Lys Asn Asp Ile
                           680
 His Leu Asp Ala Asp Asp Pro Asn Ser Ala Asp Lys His Arg Asn Asp
          .
                       695
 Cys Pro Asn Trp Ile Thr Glu Lys Ile Asn Ser Gly Pro Asp Pro Arg
                    710
                                      715
 Thr Arg Asn Pro Glu Lys Leu Lys Glu Ser His Trp Glu Glu Asn Arg
                725
                                   730
 Asn Glu Asn Ser Gly Asn Ser Trp Asn Lys Asn Phe Gly Ser Gly Trp
                               745
 Val Ser Asn Arg Gly Arg Gly Arg Gly Asn Arg Gly Arg Gly Thr Tyr
                           760
 Arg Ser Ser Phe Ala Tyr Lys Asp Gln Asn Glu Asn Arg Trp Gln Asn
                       775
 Arg Lys Pro Leu Ser Gly Asn Ser Asn Ser Ser Gly Ser Glu Ser Phe
                    790
                                      795
```

ГÀЗ	Phe	Val	Glu	Gln 805	Gln	Ser	Tyr	Lys	Arg 810	Lys	Ser	Glu	Gln	Glu 815	Phe	
Ser	Phe	Asp	Thr 820	Pro		_	_								Ser	
Trp	Ala	Val 835	Arg					Ala		Val						
Arg		Gly	Arg												Gln	
Glu 865			Thr			Gln		Ser			Lys					
	Gln	Val	Asp	Gly 885					Ile 890	Asn			Gln	Pro 895		
Met	Asn	Val	Met 900	Gln	Gln	Gln	Met			Gln	His	Gln	Pro 910		Asn	
Ile.	Phe.	Pro 915	Tyr		Val	Gly	Val 920	His			Leu	<u>Met</u> 925		Ile	Gln	
Arg	Asn 930		Phe	Asn	Ile			Gln	Leu	Pro	Leu 940		Leu	His	Thr	
Gly 945	Val	Pro	Leu	Met	Gln 950				Pro			Val	Ser	Gln	Gly 960	
		Pro	Pro	Pro 965		Pro	Pro	Pro	Pro 970	Ser		Gln	Val	Asn 975	Tyr	
Ile	Ala	Ser	Gln 980	Pro	Asp	Gly		Gln 985		Gln	Gly	Ile	Pro 990	Ser	Ser	
Ser	His	Val 995	Ser	Asn	Asn	Met	Ser 100		Pro	Val	Leu	Pro 100		Pro	Thr	
Ala	Ala 101		Gly	Asn	Thr					Gly			Ser		Asn	
			Ser													
																1.46
			Lyc												Val	
пуѕ	TIIL	ASL	_	:0 Пур						. Буз					· vai	,
Lvs	Leu	ı Ala													Glu	
		107		-1-1			108			-	•	108		-	•	
Glu	Tyr 109	_	s Glu	ılle	. Val	Arg		Ala	ı Val	. Asp	Lys 110		. Cys	His	Ser	
Lys	Ser	Gly	y Gli	ı Val	Asn	Ser	Thr	Lys	val	Ala	. Asr	Let	ı Val	. Lys	Ala	
110					111					111					112	
Туг	Va]	L Ası) Lys	Tyr 112		туг	: Sei	Arg	J Lys 111		/ Ser	Glr	ı Lys	Lys 113	Thr	
Lev	ı Glı	ı Gli	u Pro 114		l Ser	Thi	c Glı	1 Ly:		n Ile	e Gly	7		•		
		<210	> 16	9												•
		<211	> 59	7				•								
			> DN: > Ho		apie	ns										
		<400	> 16	9												
															gaggctt	60
															ggcaaac	120
_					_										cctgtaa	180
ac	ttgg	atca	agt	tccc	tcc	cctc	tcct	ca a	aata	tatc	g ac	ttgt	gctg	aaa	gaaatca	240

cgaccgatgc tcacaattct gacctcgtaa ttatataggg ggtggttttg gtttctgcgt 300 ctttccctga ttcagtggca ggtaacatat ttcatgtaca aaatgaactg caacaccacg 360 gcaaacaagg gacaggccct caaagttgtc ggtagggagc caggaccccg ccagtggcgt 420 ggggagacae egtactaaac aagettgeaa acageaggea cetteetgee actgaggagg 480 aagggctggc taagggaggc cggggcggag gaagccaagc tctgcaggcc ctgacaaagt 540 ceteceggee tecaegegte gecatggeaa egeggggtet gtgetgeeeg ggattgg 597 <211> 3344 <212> DNA <213> Homo Sapiens <400> 170 ggtacagetg egegtetgeg ggaataggtg cagegggeee ttggeggggg actetgaggg 60 aggagetggg-gaeggegaee-etaggagagt-tetttgggggt-gaettteaag-atggaeteta-120 ctctaacagc aagtgaaatc cggcagcgat ttatagattt cttcaagagg aacgagcata 180 cgtatgttca ctcgtctgcc accatcccat tggatgaccc cactttgctc tttgccaatg 240 caggcatgaa ccagtttaaa cccattttcc tgaacacaat tgacccatct caccccatgg 300 caaagetgag cagagetgee aatacceaga agtgeateeg ggetggggge aaacaaaatg 360 acctggacga tgtgggcaag gatgtctatc atcacacctt cttcgagatg ctgggctctt 420 ggtcttttgg agattacttt aaggaattgg catgtaagat ggctctggaa ctcctcaccc 480 aagagtttgg cattcccatt gaaagacttt atgttactta ctttggcggg gatgaagcag 540 ctggcttaga agcagatctg gaatgcaaac agatctggca aaatttgggg ctggatgaca 600 ccaaaatcct cccaggcaac atgaaggata acttctggga gatgggtgac acgggccct 660 gtggtccttg cagtgagatc cactacgacc ggattggtgg tcgggacgcc gcacatcttg 720 tcaaccagga cgaccctaat gtgctggaga tctggaacct tgtgttcatc cagtataaca 780 gggaagetga tggcattetg aaacetette ecaagaaaag cattgacaca gggatgggee 840 tggaacgact ggtatctgtg ctgcagaata agatgtccaa ctatgacact gacctttttg 900 tcccttactt tgaagccatt cagaagggca caggtgcccg accatacact gggaaagttg 960 gtgctgagga tgccgatggg attgacatgg cctaccgggt gctggctgac catgctcgga 1020 ccatcactgt ggcactggct gatggtggcc ggcctgacaa cacagggcgt ggatatgtgt 1080 tgagacggat tctccgccga gctgtccgat acgcccatga aaagctcaat gccagcaggg 1140 gettetttge taegttagtg gatgttgteg teeagteest gggagatgea tttcctgage 1200 tgaagaagga cccagacatg gtgaaggaca tcattaatga agaagaggtg cagtttctca 1260 agacteteag cagagggegt egeateetgg acaggaaaat teagageetg ggagacagea 1320 agaccattcc cggagacact gcttggctcc tctatgacac ctatgggttt ccagtggatc 1380 tgactggact gattgctgaa gagaagggcc tggtggtaga catggatggc tttgaagagg 1440 agaggaaact ggcccagctg aaatcacagg gcaagggagc tggtggggaa gacctcatta 1500 tgctggacat ttacgctatc gaagagctcc gggcacgggg tctggaggtc acagatgatt 1560 ccccaaagta caattaccat ttggactcca gtggtagcta tgtatttgag aacacagtgg 1620 ctacggtgat ggctctgcgc agggagaaga tgttcgtgga agaggtgtcc acaggccagg 1680 agtgtggagt ggtgctggac aagacctgtt tctatgctga gcaaggaggc cagatctatg 1740 acgaaggcta cctggtgaag gtggatgaca gcagtgaaga taaaacagag tttacagtga 1800 agaatgetea ggteegagga gggtatgtge tacacattgg aaccatetae ggtgaeetga 1860 aagtggggga tcaggtctgg ctgtttattg atgagccccg acgaagaccc atcatgagca 1920 accacacage tacgcacatt etgaactteg ceetgegete agtgettggg gaagetgace 1980 agaaaggete attggttget eetgaeegee teagatttga etttaetgee aagggageea 2040 tgtccaccca acagatcaag aaggctgaag agattgctaa tgagatgatt gaggcagcca 2100 aggeegteta tacceaggat tgeeceetgg cageagegaa ageeateeag ggeetaeggg 2160 ctgtgtttga tgagacctat cctgaccctg tgcgagtcgt ctccattggg gtcccggtgt 2220 cegagttgct ggatgacccc tetgggcetg etggeteect gaettetgtt gagttetgtg 2280 ggggaacgca cctgcggaac tcgagtcatg caggagcttt tgtgatcgtg acggaagaag 2340 ccattgccaa gggtatccgg aggattgtgg ctgtcacagg tgccgaggcc cagaaggccc 2400

** U 22/07403

2460

2520

tcaggaaagc agagagcttg aagaaatgtc tctctgtcat ggaagccaaa gtgaaggctc

agactgctcc aaacaaggat gtgcagaggg agatcgctga ccttggagag gccctggcca

```
ctgcagtcat cccccagtgg cagaaggatg aattgcggga gactctcaaa tccctaaaga
                                                                      2580
aggtcatgga tgacttggac cgagccagca aagccgatgt ccagaaacga gtgttagaga
                                                                      2640
agacgaagca gttcatcgac agcaacccca accagcctct tgtcatcctg gagatggaga
                                                                      2700
geggegeete agecaaggee etgaatgaag eettgaaget etteaagatg eacteecete
                                                                     2.7.6.0
agacttctgc catgctcttc acggtggaca atgaggctgg caagatcacg tgcctgtgtc
                                                                      2820
aagtccccca gaatgcagcc aatcggggct taaaagccag cgagtgggtg cagcaggtgt
                                                                      2880
caggettgat ggacggtaaa ggtggtggca aggatgtgte tgcacaggee acaggcaaga
                                                                      2940
acgttggctg cctgcaggag gcgctgcagc tggccacttc cttcgcccag ctgcgcctcg.
                                                                      3.000
gggatgtaaa gaactgagtg gggaaggagg aggctcccac tggatccatc cgtccagcca
                                                                      3060
agagetette atetgetaca agaacatttg aatettggga eetttaaaga geeceteeta
                                                                      3120
acccagcagt aactggaaca cacttgggag cagtcctatg tctcagtgcc ccttaaattt
                                                                      3180
ctgccctgag ccctccacgt cagtgccatc ggtctagaac cactaacccc gcattgctgt
                                                                      3240
tgatcgtcac gctcgcatct atagataacg gctctccaga cctgagcttt ccgcgtcagc
                                                                      3300
aagtaggaat cgtttttgct gcagagaata aaaggaccac gtgc
                                                                      3344
      <210> 171
      <211> 1004
```

网络双翼的群员 网络马拉 人間に対象性 利度装作 ターカー At Language Tolk March 1925 BULL SECRETARION OF SEC . ಕಮ್ಮಾಕ್ಷಾಗಿ (೧೯೮೮) 31 Your 19

<212> PRT <213> Homo Sapiens

<400> 171

•		00>				,										
Tyr 1		_									Gly					
Thr	Leu	Arg	Glu 20	Glu	Leu	Gly	Thr	Ala 25	Thr	Leu	Gly	Glu	Phe 30	Phe	Gly	
Val	Thr	Phe 35		Met	Asp	Ser					Ser	Glu 45	Ile	Arg	Gln	
Arg	Phe	Ilė	Asp	Phe	Phe	Lys	Arg	Asn	Glu		Thr		Val	His	Ser	
										T 033		Dha	בות	λan.	בות	
Ser											пец	FIIC	AIA	Maii	80	
65										75	mb	т1.	7 ~~	Dro		
Glÿ										ASII	THE	тте	Asp	95	ser	
ಗಳ ಕಲಾಸಿ : -							}•• <u>,</u> .		90		ml	~1 -	T		T 1.	
				Lys	Leu	Ser	Arg		Ата	Asn	Thr	GIII		Cys	TTE	
	• •						_	105	_	_		~ 1	110	•	*7-3	
Arg	Ala			Lys	Gln	Asn		Leu	Asp	Asp	Val	125	гÀг	Asp	val	
		115			1	~1	120	.	~ 1		TT 2000		Dho	01.	7.00	
Tyr		His	Thr	Pne	Pne		Met	Leu	GIY	Ser	Trp	261	FILE	Gry	Asp	
	130	_		_		135	.	34 - 4	77.	T		T 011	T 011	mb~	Cln	
_	Phe	Lys	Glu	Leu			гÃг	Met	Ala	. ьец 155	Glu	ьеи	ьеи	TIII	160	
145				_	150			.	m			TD= =>=	Dho	<i>α</i> 1		
Glu	Phe	Gly	Ile			GIU	Arg	ьeu			Thr	TAL	FIIG	175		
	_			165		~3	~ ~ .		170		O	T		_		
Asp	Glu	Ala			Leu	GLU	. Ата			i Giu	Cys	гуя	GTII	116	Trp	
			180					185		_	_	~ 1	190		*	
Gln	Asn			, Leu	Asp	Asp			ILE	e Leu	Pro			. Met	гÀг	
		195					200		=			205		_	_	
Asp			Trp	Glu	ı Met			Thr	GT?	/ Pro			Pro	Cys	Ser	
	210					215					220				_	
Glu	ı Ile	His	з Туг	: Asp	Arg	, Ile	e Gly	r Gly	Arg			Ala	His	Leu	Val	
225					230					235					240	
Asn	Glr	. Ası	Asp	Pro) Asr	ı Val	l Lei	ı Glı	ı Ile	e Trp) Asr	Let	ı Val		: Ile	
				245					25					255		
Glr	туз	Ası	n Arg	g Gly	ı Ala	a Ası	Gly			u Lys	Pro	Lev			Lys	
. ** -*			260					26					270			•

```
Ser Ile Asp Thr Gly Met Gly Leu Glu Arg Leu Val Ser Val Leu Gln
                         280
Asn Lys Met Ser Asn Tyr Asp Thr Asp Leu Phe Val Pro Tyr Phe Glu
   Ala Ile Gln Lys Gly Thr Gly Ala Arg Pro Tyr Thr Gly Lys Val Gly
                  310
Ala Glu Asp Ala Asp Gly Ile Asp Met Ala Tyr Arg Val Leu Ala Asp
         335----
His Ala Arg Thr Ile Thr Val Ala Leu Ala Asp Gly Gly Arg Pro Asp
           340
                             345
Asn Thr Gly Arg Gly Tyr Val Leu Arg Arg Ile Leu Arg Arg Ala Val
                         360
Arg Tyr Ala His Glu Lys Leu Asn Ala Ser Arg Gly Phe Phe Ala Thr
                      375
Leu-Val-Asp-Val-Val-Val-Gln-Ser-Leu-Gly-Asp-Ala-Phe-Pro-Glu-Leu-
                  390
                                    395
Lys Lys Asp Pro Asp Met Val Lys Asp Ile Ile Asn Glu Glu Glu Val
              405
                                 410
Gln Phe Leu Lys Thr Leu Ser Arg Gly Arg Arg Ile Leu Asp Arg Lys
           420
                             425
Ile Gln Ser Leu Gly Asp Ser Lys Thr Ile Pro Gly Asp Thr Ala Trp
                          440
                                            445
Leu Leu Tyr Asp Thr Tyr Gly Phe Pro Val Asp Leu Thr Gly Leu Ile
                      455
Ala Glu Glu Lys Gly Leu Val Val Asp Met Asp Gly Phe Glu Glu Glu
                  470
                                     475
Arg Lys Leu Ala Gln Leu Lys Ser Gln Gly Lys Gly Ala Gly Glu
              485
                                 490
Asp Leu Ile Met Leu Asp Ile Tyr Ala Ile Glu Glu Leu Arg Ala Arg
  505 (A) (4.30) (5.05)
Gly Leu Glu Val Thr Asp Asp Ser Pro Lys Tyr Asn Tyr His Leu Asp
                          520
                                 Ser Ser Gly Ser Tyr Val Phe Glu Asn Thr Val Ala Thr Val Met Ala
                      535
                                        540
Leu Arg Arg Glu Lys Met Phe Val Glu Glu Val Ser Thr Gly Gln Glu
                  550
                                     555
Cys Gly Val Val Leu Asp Lys Thr Cys Phe Tyr Ala Glu Gln Gly Gly
Gln Ile Tyr Asp Glu Gly Tyr Leu Val Lys Val Asp Asp Ser Ser Glu
                              585
Asp Lys Thr Glu Phe Thr Val Lys Asn Ala Gln Val Arg Gly Gly Tyr
                          600
Val Leu His Ile Gly Thr Ile Tyr Gly Asp Leu Lys Val Gly Asp Gln
                      615
Val Trp Leu Phe Ile Asp Glu Pro Arg Arg Pro Ile Met Ser Asn
                  630
                                     635
His Thr Ala Thr His Ile Leu Asn Phe Ala Leu Arg Ser Val Leu Gly
               645
                                 650
Glu Ala Asp Gln Lys Gly Ser Leu Val Ala Pro Asp Arg Leu Arg Phe
                              665
Asp Phe Thr Ala Lys Gly Ala Met Ser Thr Gln Gln Ile Lys Lys Ala
                          680
Glu Glu Ile Ala Asn Glu Met Ile Glu Ala Ala Lys Ala Val Tyr Thr
                      695
                                        700
                                               .. .. . . . .
Gln Asp Cys Pro Leu Ala Ala Ala Lys Ala Ile Gln Gly Leu Arg Ala
```

VI () 77/104203

```
710
                                      715
705
Val Phe Asp Glu Thr Tyr Pro Asp Pro Val Arg Val Val Ser Ile Gly
               725
                                  730
Val Pro Val Ser Glu Leu Leu Asp Asp Pro Ser Gly Pro Ala Gly Ser
                              745
Leu Thr Ser Val Glu Phe Cys Gly Gly Thr His Leu Arg Asn Ser Ser
       755
                           760
                                              765
His Ala Gly Ala-Phe Val Ile Val Thr Glu Glu Ala Ile Ala-Lys Gly
                       775
Ile Arg Arg Ile Val Ala Val Thr Gly Ala Glu Ala Gln Lys Ala Leu
                                      795
Arg Lys Ala Glu Ser Leu Lys Lys Cys Leu Ser Val Met Glu Ala Lys
               805
                                  810
Val Lys Ala Gln Thr Ala Pro Asn Lys Asp Val Gln Arg Glu Ile Ala
  Asp Leu Gly Glu Ala Leu Ala Thr Ala Val Ile Pro Gln Trp Gln Lys
                           840
Asp Glu Leu Arg Glu Thr Leu Lys Ser Leu Lys Lys Val Met Asp Asp
                       855
Leu Asp Arg Ala Ser Lys Ala Asp Val Gln Lys Arg Val Leu Glu Lys
                   870
                                      875
Thr Lys Gln Phe Ile Asp Ser Asn Pro Asn Gln Pro Leu Val Ile Leu
          Glu Met Glu Ser Gly Ala Ser Ala Lys Ala Leu Asn Glu Ala Leu Lys
                               905
Leu Phe Lys Met His Ser Pro Gln Thr Ser Ala Met Leu Phe Thr Val
                           920
Asp Asn Glu Ala Gly Lys Ile Thr Cys Leu Cys Gln Val Pro Gln Asn
                    754993.5 % 3.53 13.44
                                          940 .
Ala Ala Asn Arg Gly Leu Lys Ala Ser Glu Trp Val Gln Gln Val Ser
               950-46955-0
                                      955
                                          . . . . . .
Gly Leu Met Asp Gly Lys Gly Gly Lys Asp Val Ser Ala Gln Ala
                    5/11/2016 of Land 1970
                965
                                          174
Thr Gly Lys Asn Val Gly Cys Leu Gln Glu Ala Leu Gln Leu Ala Thr
                 985. .
Ser Phe Ala Gln Leu Arg Leu Gly Asp Val Lys Asn
        995
      <210> 172
      <211> 659
      <212> DNA
      <213> Homo Sapiens
      <400> 172
 gcctgagcaa cgtctccgag caggcgctgg gctagaggcg ggtctcaacc agctactcat
                                                                    60
 tggaggeggg ettgagageg geggeeaggg aggtgeggag eageetegge ggeggegee
                                                                    120
 gaaccaaccg agtcggatcc tgaccctaaa acctagtatt ttccacttgt tcatcaatat
                                                                    180
 qqaaaactca qattccaatq acaaaggaaq tqqtqatcaq tctqcaqcac aqcqcaqaaq
                                                                    240
 tcagatggac cgattggatc gagaagaagc tttctatcaa tttgtaaata acctgagtga
                                                                    300
 agaagattat aggettatga gagataacaa tttgetagge accccaggtg aaagtactga
                                                                    360
 ggaagagttg ctgagacgac tacagcaaat taaagaaggc ccaccaccgc aaaactcaga
                                                                    420
 tgaaaataga ggaggagact cttcagatga tgtgtctaat ggtgactcta taatagactg
                                                                    480
 gcttaactct gtcagacaaa ctggaaatac aacaagaagt gggcaaagag gaaaccaatc
                                                                    540
 ttggagagca gtgagtcgga ctaatccaaa cagtgggtga tttcagattc agtttagaga
                                                                    600
 taaatgttaa cccgtaataa tgggagccaa aattcagaga atgaaaatga gccatctgc
                                                                    659
```

```
<211> 192
     <212> PRT
     <213> Homo Sapiens
     <400> 173
Pro Glu Gln Arg Leu Arg Ala Gly Ala Gly Leu Glu Ala Gly Leu Asn
                                   10
Gln Leu Leu Ile Gly Gly Gly Leu Glu Ser Gly Gly Gln Gly Gly Ala
                               25
Glu Gln Pro Arg Arg Arg Pro Asn Gln Pro Ser Arg Ile Leu Thr
                           40
Leu Lys Pro Ser Ile Phe His Leu Phe Ile Asn Met Glu Asn Ser Asp
Ser Asn Asp Lys Gly Ser Gly Asp Gln Ser Ala Ala Gln Arg Arg Ser
                   70
                                       75
Gln Met Asp Arg Leu Asp Arg Glu Glu Ala Phe Tyr Gln Phe Val Asn
               85
                                   90
Asn Leu Ser Glu Glu Asp Tyr Arg Leu Met Arg Asp Asn Asn Leu Leu
                               105
Gly Thr Pro Gly Glu Ser Thr Glu Glu Leu Leu Arg Arg Leu Gln
                           120
Gln Ile Lys Glu Gly Pro Pro Pro Gln Asn Ser Asp Glu Asn Arg Gly
                                           140
                       135
Gly Asp Ser Ser Asp Asp Val Ser Asn Gly Asp Ser Ile Ile Asp Trp
                    150
                                       155
Leu Asn Ser Val Arg Gln Thr Gly Asn Thr Thr Arg Ser Gly Gln Arg
 : 165
                                    170
Gly Asn Gln Ser Trp Arg Ala Val Ser Arg Thr Asn Pro Asn Ser Gly
                                                                Committee of the first section
 190
n waterstand his bill
 <210> 174
                                                                  リード 独立は こここ
  38.7. <211> 610 :
                                                                   The state Walls and
  <212> DNA
      <213> Homo: Sapiens
      <400> 174
gtactggcat cagtcaatgt tctggagtga tttgggcccc gatgttggct atgaagctat
                                                                      60
tggtcttgtg gacagtagtt tgcccacagt tggtgttttt gcaaaagcaa ctgcacaaga
                                                                     120
caaccccaaa tctgccacag agcagtcagg aactggtatc cgatcagaga gtgagacaga
                                                                     180
gtccgaggcc tcagaaatta ctattcctcc cagcaccccg gcagttccac aggctcccgt
                                                                     240
ccagggggag gactacggca aaggtgtcat cttctacctc agggacaaag tggtcgtggg
                                                                     300
gattgtgcta tggaacatct ttaaccgaat gccaatagca aggaagatca ttaaggacgg
                                                                     360
tgagcagcat gaagatctca atgaagtagc caaactattc aacattcatg aagactgaag
                                                                     420
ccccacagtg gaattggcaa acccactgca gcccctgaga ggaggtcqaa tgggtaaagg
                                                                      480
agcatttttt tattcagcag actttctctg tgtatgagtg tgaatgatca agtcctttqt
                                                                     540
gaatattttc aactatgtag gtaaattctt aatgttcnca tagtgaaata aattctgatt
                                                                      600
 cttctaaaaa
                                                                      610
      <210> 175
      <211> 138
      <212> PRT
       <213> Homo Sapiens
```

TT U ノノ/ U TMUU

<210> 173

<400> 175

```
Tyr Trp His Gln Ser Met Phe Trp Ser Asp Leu Gly Pro Asp Val Gly
1
Tyr Glu Ala Ile Gly Leu Val Asp Ser Ser Leu Pro Thr Val Gly Val
                                25
Phe Ala Lys Ala Thr Ala Gln Asp Asn Pro Lys Ser Ala Thr Glu Gln
                            40
Ser Gly Thr Gly Ile Arg Ser Glu Ser Glu Thr Glu Ser Glu Ala Ser
                                            60
                        55
Glu Ile Thr Ile Pro Pro Ser Thr Pro Ala Val Pro Gln Ala Pro Val
                                        75
                    70
Gln Gly Glu Asp Tyr Gly Lys Gly Val Ile Phe Tyr Leu Arg Asp Lys
                                    90
Val Val Val Gly Ile Val Leu Trp Asn Ile Phe Asn Arg Met Pro Ile
Ala Arg Lys Ile Ile Lys Asp Gly Glu Gln His Glu Asp Leu Asn Glu
                            120
Val Ala Lys Leu Phe Asn Ile His Glu Asp
                        135
      <210> 176
      <211> 805
      <212> DNA
      <213> Homo Sapiens
      <400> 176
gggacageca agtetgtgae ttgcaegtae teccetgece teaacaagat gttttgccaa
                                                                        60
ctggccaaga cctgccctgt gcagctgtgg gttgattcca caccccgcc cggcacccgc
                                                                       120
qtccqcqcca tggccatcta caagcagtca cagcacatga cggaggttgt gaggcgctgc
                                                                       180
ccccaccatg agcgctgctc agatagcgat ggtctggccc ctcctcagca tcttatccga
                                                                      240 ...
gtggaaggaa atttgcgtgt ggagtatttg gatgacagaa acacttttcg acatagtgtg
                                                                    5 300 gab -
gtggtgccct atgagccgcc tgaggttggc tctgactgta ccaccatcca ctacaactac
                                                                       360℃ -
atgtgtaaca gttcctgcat gggcggcatg aaccggaggc ccatcctcac catcatcaca
                                                                       420
ctggaagact ccagtggtaa tctactggga cggaacagct ttgaggtgcg tgtttgtgcc
                                                                     480
tgtcctggga gagaccggcg cacagaggaa gagaatctcc gcaagaaagg ggagcctcac
                                                                       540 ":
cacgaagetg ceeceaggga geactaageg ageaetgeec aacaacacea ageteetete
                                                                       600
 cccagccaaa gaagaaanca ctggatngag aatatttcac cccttcanat tcgttgggcg
                                                                       660
tgagcgcttc cganaatgtt ccgaagagct gnaagaaggc cttgggaact caaaggatgc
                                                                       720
 ccaaqqettq qqaaaqqaqc caanqqqqqq qaancaanqq qetcaaetne aagccaacet
                                                                       780
 gaaagttcca aaaaangggt ccagt
                                                                       805
       <210> 177
       <211> 626
       <212> DNA
       <213> Homo Sapiens
       <400> 177
 ctaatttqtc tgtttattcc cacaaggtag ccaggggtgg gggcgccgag ccaagcccag
                                                                         60
 caggicatgg gaccttictic cggcggggtg cacgctggat tittcgggtct gcccaccag
                                                                        120
 caggtttgca ggcaggccgt catgagtgcc ggtggaaggc tccgagggcg tgggcagggg
                                                                        180
 ctcgggcggg gccacacact tgtggagcta gaaatantgg ggcaggtcct tctctatcac
                                                                        240
 caggggctcc tccatgggtc cgtagcgctt caccacgcag ccgttcttgt cgatgaggaa
                                                                        300
 ctgtgganan acggtgtcca aactgtgggg ccacccctgc aaggggctga ggctgccctt
                                                                        360
 cetgteeget geceatetgg gecaeggetg tggceagggg aaactggtee cetaececee
                                                                        420
 acaqcccct tacctttggt gaagttccac ttgatggcac tggaaaanaa gcacatggac
                                                                        480
```

** • >>, • ----

540

qtqaqcqtcc ccaggcagcc ccccacagtc cccaaagctt gtcctgtctc caaggaggcc

anaaaggttg t	nagcttccc	ccggtncctc	cacangccac	agtgccccca	aancccccc	600
aanagccatc t	ttaccccaa	ggaggg				626
<210>	178			•		-
<211>	793					
<212>						
<213>	Homo Sapie	ens				
				<u> </u>		
<400>						
gcgcgaggct g				•		. 60
gcggcggccc (120
agggcgtgct						180
tectcacega						240
agcaacagca g						300
aacccagtgg_						360
tetecaacat q						420 480
		gtgcagtaca				540
		cacctggtcc				600
					ccaagcccca	
		caagccccaa				720
		aacattcaan				780
acccaanaac						7.93
•	·				•	
<210>	179					•
<211>	786				•	•
<212>	DNA					
<213>	Homo Sapi	ens		•		
<213>		ens · · ·		•	Januar	i i i i i i i i i i i i i i i i i i i
	Ţ.,	ens			•	ing the second s
njet metabolija ib 1903. uprije <400> 19 Jaatatcagag	179 ttttaatttc	aaccagctgg			actttctgaa	.01,000,0 30 0 (
nnt mar (1994) May 1999 (400) Matatcagag Magtactcgag	179 ttttaatttc aaataatgaa	aaccagctgg taaattctta	atgttttccc	ctccaccgcc	actttctgaa cttttttatt	លាក់ សេក្សាក្នុង១៦ ការប្រក ភាពិសិព្វភិបាសិក្សាការប្រក ភពិសិព្វភិបាសិក្សាការប្រក
.atatacagag agtactcgag actccaagatt	179 ttttaatttc aaataatgaa aggaattact	aaccagctgg taaattctta acggattagg	atgttttccc tttttgaaaa	ctccaccgcc taaagtttcc	actttctgaa cttttttatt tttttggaaa	
<pre>400> aatatcagag agtactcgag ctccaagattc atggtctaca</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg	aaccagctgg taaattctta acggattagg tcttagaaca	atgttttccc tttttgaaaa agcatttaaa	ctccaccgcc taaagtttcc aaaaactaat	actttctgaa cttttttatt tttttggaaa aaataatcat	0.75 0.00 4400 + 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
<400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag	atgttttccc tttttgaaaa agcatttaaa tacatcatcg	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata	
<pre>400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg	104 44 (440 440 440 440 440 440 440 440 4
<pre>400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg	104 44 44 44 46 4 4 4 4 4 4 4 4 4 4 4 4 4
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag	103 447 4403 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag	1.75 1.60 2 420 4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc	100 100 100 100 100 100 100 100 100 100
<pre><400> aatatcagag agtactcgag actccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgccccttt aatgcggctg</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcgcctgcc ggtnaaggtg	1.04 1.07 1.40 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgccccttt aatgcggctg tggggtgcca</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	100 100 100 100 100 100 100 100 100 100
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcggtgcca gggaacctng</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgccccttt aatgcggctg tggggtgcca</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	100 100 100 100 100 100 100 100 100 100
<pre><400> aatatcagag agtactcgag actccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcggctg tggggtgcca gggaacctng ttgggg</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag actccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcggctg tggggtgcca gggaacctng ttgggg</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcgctg tggggtgcca gggaacctng ttgggg</pre> <210: <211:	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcggctg tggggtgcca gggaacctng ttgggg</pre> <210: <211:	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg naaggcttgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag actccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcggctg tggggtgcca gggaacctng ttgggg</pre> <210: <211: <212:	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn > 180 > 791 > DNA	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg naaggcttgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccettt aatgcggctg tggggtgcca gggaacctng ttgggg</pre> <210: <211: <212: <400:	ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn > 180 > 791 > DNA > Homo Sapi	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg naaggcttgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat ggttggggct	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg naanggctgg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt ggtttttaa	103 447 440 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccettt aatgcggctg tggggtgcca gggaacctng ttgggg</pre> <210: <211: <212: <400: aggacctcag	ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn > 180 > 791 > DNA > Homo Sapi > 180 agacccaggc	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg naaggcttgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat ggttggggct	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg naanggctgg	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt ggtttttaa	100 100 100 100 100 100 100 100 100 100
<pre><400> aatatcagag agtactcgag ctccaagatt atggtctaca aaatcaaaat caagacgatc catcgtgatg tccaaactac acaatagaaa ctgcccttt aatgcggctg tggggtgcca gggaacctng ttgggg <210 <211 <212 <400 aggacctcag aggagggtat</pre>	179 ttttaatttc aaataatgaa aggaattact ttcagaaatg acattaaaat ctttcaaagg aaaagtatgc ttgatctggt tgtgctcgtc cangcagagt tgggtgtggg antnaaggat cngggggccn > 180 > 791 > DNA > Homo Sapi > 180 agacccaggc	aaccagctgg taaattctta acggattagg tcttagaaca aaaattacag ttcataaata agaaaactaa gcggggcgga ccacttcctc tgggaggtgc tgcngtattt gaaaatgtgg naaggcttgg	atgttttccc tttttgaaaa agcatttaaa tacatcatcg aaagtcttct gaagaatcgc gagactgttt aagtcctcaa tgcgganaaa ggtgccggat atnttngnat ggttggggct tggccttcaa actcagccaa	ctccaccgcc taaagtttcc aaaaactaat ctcctagaaa tgactcgaaa aagttttcag tgcttttgat aaccttgtct ccggtgcccg gcnggtgccg nttgattccg naanggctgg ggaaggggaa gcccagtcca	actttctgaa cttttttatt tttttggaaa aaataatcat attcaccata tcgtttcctg tagggtgatg ccaagtgaag tgcccgggag tgcggctgcc ggtnaaggtg gatacggggt ggtttttaa	100 100 100 100 100 100 100 100 100 100

```
atctcctcac ctctccaaag cccagtctca cttcatctcc actgctagcc tggtgggaat
                                                                     300
gggacacaaa attcctgtgt ccactgtgta tgcgctcacg acggccacgc ctagagacaa
                                                                     360
tectageett getggttgee etgeagagge tgeeegtgeg getgeetgag ggtgaggeee
                                                                     420
ttcagtgtct cacagagagg gccattggct ggcaagaccg tgccagaaag gctctggcct
                                                                     480
ctgaagatgt gactgctctg ttgcgacagc tggctgagct tcgccaacag ctacaggcca
                                                                     540
aacccanacc agaggaggcc tcagtctaca cttcagccac tgcctgtgac cctatcagag
                                                                     600
aaggcagtgg caacaatatt tcnaangtcc aagggctgct ggagaatgga gacantgttg
                                                                     660
accagtectg agaacatgge tecaggaaag ggetetgace tggagetaen gteeteactg
                                                                     720
                                                                     780
ttgccgcaat ttgactggnc ctgtttttgg ganctgcctg aaggcaatcc cggggctccc
                                                                     791
cctggaggga g
      <210> 181
      <211> 747
      <212> DNA
      <213> Homo Sapiens
      <400> 181
agtatccaaa catactcatt gttttatttt taacaaaaga aatgaaatta aagatagacc
                                                                       60
acaggtagag tcatgaaatt cttgtttttc cctattcttt ttggtaatta caacgtacat
                                                                      120
180
agttttgaag caccaaaata ttttatgaca gggacaaaaa aacaaaaaac aaacaaaaat
                                                                      240
tgaagtacag aaagagggtg gtgggggcaa aaataaaggt acgcacttgg gcttcctcaa
                                                                      300
gatttgtttg tecetattea gaetagaatg aaactggttt aggaaateae teetgtatge
                                                                      360
tagcaggaat gttgctggca agacacttct gagcatcggg gtgtggactt tacgaaccaa
                                                                      420
ccttttaaca gtaactctag gagagaggat atcaaaaatt ggcagtgaaa aattatagat
                                                                      480
 aggcaaaaag ctccttctga ggtccaggcc aggagatagt angatttaag aaacaaacaa
                                                                      540
 acaataacaa ccacaaatgg acctttggtg ccactgtcac aactgttgct catcagagta
                                                                      600
 ggagaattgt ancaaaggca ttaaagaagg gacaagcaag ctgaagagcc tgaatccttg
                                                                      660
 gggttgtaag ccnattttgg gnttcctttc aagaaaaggg ctgttggncg gtggaanggg
                                                                      720
                                                                      747
 tcanggaaca ntatttcacg ggtcngc
     CHAIN CONTRACTOR AND PROPERTY OF A STATE OF
                                                                       one and was 1971 and
     <210>1182476 @q. (11.14)
                                   4 704 .--
      <211> /909点 (18 a.g. )地面。
       <212> DNA
       <213> Homo Sapiens
       <400> 182
 aaacagagag ccaaatcatg agtgaactcc cattcacaat tgcttccaag ataataaaat
                                                                       60
 acctaggaat ccaacttaca aaggatgtga aggacctctt caaggagaac tacaaaccac
                                                                      120
                                                                      180
 tgctcaatga aataaaagag gatacaaaca aatggaagaa cattccatgc tcatgggtag
 gaagaatcaa tatcgtgaaa atggccatac tgcccaaggt aatgtataga ttcaatgcca
                                                                      240
 tececateaa getaceaatg aetttettea eagaattgga aaaaactaet eaaaagttea
                                                                      300
 tatggaacca aaaaagagcc cacattgcca agtcaatcct aagccaaaag aacaaagctg
                                                                      360
 gaggcatcac gctacctgac ttcaaactat actacaaggc tacagtaacc aaaacagcgt
                                                                       420
                                                                       480
 ggtactggta ccaaaacaga gatataaatc aatgcaacag aacagagccc tcagaaataa
 tgccacatat ctacaactat ctgatctttg acaaacctga gaaaaacaag caatggggaa
                                                                       540
 aggattccct atttaataaa tggtgctggg aaaactggct agccatatgt agaaagctga
                                                                       600
 aactggatct cttctttata ccttatacaa aaattaattg aagatggntt aaaggactta
                                                                       660
  aacgttagac ctaaaaccat aaaaacccta gaagaaaaac ctaggcatta ccattcangg
                                                                       720
  acataggett gggeaaggae tteetgteta aaacaccaan agcaatggga neaaaagcea
                                                                       780
  aaattgcaaa tggggattct aattaactaa agggcttttg cacagcnaag aagctccatc
                                                                       840
  agagngaaca ggaacntcaa antgggagaa attttgaacc taccatcnga naaggctaat
                                                                       900
```

nccagaatc

**** /// *====

```
** ひ ファノリマムリン
      <211> 708
      <212> DNA
      <213> Homo Sapiens
      <400> 183
attatcatta tactttaagt tttaggttac atgtgcacaa tgtgcaggtt agttacatat
                                                                        60
gtatacatgt gccatgctgg tgtgctgcac ccattaactc gttatttagc attaggtata
                                                                       120
tetectaatg etatecetee egeeteecee caceccacaa cagteeceag agtgtgatgt
                                                                       180
teceetteet gtgteeatgt gtteteaetg tteaatteee acetatgagt gagaatatge
                                                                       240
ggtgtttggt ttttttgtcc ttgccatagt ttactgagaa tgatgatttc caatttcatc
                                                                       300
cctgtcccta caaaggacat gaactcatca ttttttatgg ctgcatagta ttccatggtg
                                                                       360
tatatgtgcc acattttctt aatccagtct atcattgttg gccatttggg ttggttccaa
                                                                       420
gtctttgcta ttgtgaatac tgccgcaata aacatacgtg tgcatgtgtc tttatagcag
                                                                       480
catgatttat antcctttgg gtatatactc agtaatggga tggctgggtc aaatggnatt
                                                                       540
ecaantecan—atecettang—aattgecaea—eggaetecae—aanggttgaa—etantttaca—
                                                                       6-0-0-
gtcccancaa cagngtnaaa gggtccnaan tcnccaaaat cctctccaag caccngttgt
                                                                       660
teceggaett tttaanggat tgneaattee aacegggngt caaaaggg
                                                                       708
      <210> 184
      <211> 855
      <212> DNA
      <213> Homo Sapiens
      <400> 184
agactcacag tetgetggtg ggcagagaag acagaaacga catgagcaca gcaggaaaag
                                                                        60
taatcaaatg caaagcagct gtgctatggg aggtaaagaa accettttcc attgaggatg
                                                                       120
tggaggttgc acctcctaag gcttatgaag ttcgcattaa gatggtggct gtaggaatct
                                                                       180
gtcgcacaga tgaccacgtg gttagtggca acctggtgac cccccttcct gtgattttag
                                                                       240
gccatgaggc-agccggcatc::gtggagagtg ttggagaagg ggtgactaca gtcaaaccag
                                                                       300998 46146 3955
gtgataaagt catcccgctc tttactcctc agtgtggaaa atgcagagtt tgtaaaaacc
                                                                    1360amin magazing...
cggagageaa ctactgettg aaaaatgate taggcaatee tegggggaee etgeaggatg
                                                                       420000-20400700
gcaccaggag gttcacctgc agggggaage ccattcacca cttccttggc accagcacct
                                                                       48093343000000
teteccagta caeggtggtg gatgagaatg cagtggccaa aattgatgca geetegeeee
                                                                    7-- 4540944 - 445564 5
tggagaaagt ctgcctcatt ggctgtggat tctcgactgg gttatgggtc tgcagttaac
                                                                       600
gttgccaagg tcaccccagg ctctacctgt gctgtgtgtg gcctgggaag ggtcggccta
                                                                       660
tetgetgtta tgggetgtta aagcaactgg aggcanceag aatcaattge ggtggacate
                                                                       720
aacaaggaca aattttgcaa agggcaaaag agttgggtgc cactgaatgc catcaaccct
                                                                       780
caagnetnea ngnaaaccea teeaggnaag tgetaaaang gaatttaceg attggagggt
                                                                       840
ttggattttt ccgtt
                                                                       855
      <210> 185
      <211> 865
      <212> DNA
      <213> Homo Sapiens
      <400> 185
cacagatgtt caatcaactg atgaagcaag tgtcaggact tactgttgac acagaggagc
                                                                        60
```

180

240

300

360

420

4.8.0

540

ggctgaaagg agttattgac ctggtctttg agaaggctat tgatgaaccc agtttctctg

tggcttacgc aaacatgtgt cgatgtctag taacgctgaa agtacccatg gcagacaagc

ctggtaacac agtgaatttc cggaagctgc tactgaaccg ttgccagaag gagtttgaaa

aagataaagc agatgatgat gtctttgaga agaagcagaa agaacttgag gctgccagtg

ctccagagga gaggacaagg cttcatgatg aactggaaga agccaaggac aaagcccggc

ggagatccat tggcaacatc aagtttattg gagaactctt taaactcaaa atgctgactg

aagccatcat gcatgactgt gtggtgaagc tgctaaagaa ccatgatgaa gaatccctgg

```
cacgtatgga ccagtacttt aatcaagatg gagaaaattg tnaaagaaag aaaaacctca
                                                                                                                                                                                             600
         tctagggatt cggttcatgc ttcaaagatg ttatanacct aaggctgttg caattggggt
                                                                                                                                                                                             660
         atctcgaaag agcagatnaa gggcctnaan ctatcgaaca gattcacaaa ganggctaaa
                                                                                                                                                                                             720
         attgaaanaa caagaatagc caaagggaag gnccaacaac tcatggacca anggagaaat
                                                                                                                                                                                             780
          agaataccaa ggtgttccaa aaanttggcc aaangnnggt tggaaanacn gttcaaaggg
                                                                                                                                                                                             840
                                                                                                                                                                                             865
          ggccangaaa aantccgggt actgg
                         <210> 186
                         <211> 736
                         <212> DNA
                         <213> Homo Sapiens
                          <400> 186
           aaatatttgt totatgtatt tacaagoott aaagttgoto taaagattto aagagtatta
                                                                                                                                                                                                60
agagtacttt teteagggta geaettingt tittitaaae aatteitgga giteiggt
                                                                                                                                                                                              120
           ccacagcatt teettetgtt teaatgttat gtatgttttg attactattg tgattttta
                                                                                                                                                                                              180
           aattttctga agcaagctga gaggcaggca gaaagatttg atgccaaaaa aaaaaaaatc
                                                                                                                                                                                              240
           tttcttacct tgttcacccc aaactttctc aaatctggac taaatgctat accttaaaac
                                                                                                                                                                                              300
           aaacatgagg tgcatcttga aggggaggga aatttatttc tctgcttttc tattatacaa
                                                                                                                                                                                              360
           gttgtttaca gaaactgcaa attaaaaaat tacactggca tttgcagtcc ttaaaataaa
                                                                                                                                                                                              420
           ttaaaagttc tcaacttttt tttttttttg ctaaacattt ttttaagtat gagtccttgt
                                                                                                                                                                                              480
           ttaaaaagaa aagattaaaa cagaaaatat tttctataaa taatacatgt attttggttt
                                                                                                                                                                                              540
           tagtgctccc gccctaaggt ttgaagttta cttttancca ngtacctttt tcctccatga
                                                                                                                                                                                              600
           tcaccttttt ttctctttcc cctctcccaa ntccgtgcac acgtgggggt ttccggcaan
                                                                                                                                                                                              660
           aattggcctt gctgnactgt gattgggcga anaacgttga aaaacctttt taaaaaaaaa
                                                                                                                                                                                              720
                                                                                                                                                                                              736
           tacttaaaat tgggtt
                           <210> 187
                                                                                                                                            a spire of the March
                         <211> 946
                                                                                                                                    <212> DNA
                                                                                                                                         regarded that the control of
                           <213> Homo Sapiens
                                                                                                                                            (A^{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1}A_{k+1
           ing the second of the second o
           <400> 187
                                                                                                                                    Commission of Sport Commission
            tgaaggagct acaggccgag caggaggacc gggctttaag gagttttaag ctgagtgtca
                                                                                                                                                                                                60
            ctgtagaccc caaataccat cccaagatta tcgggagaaa gggggcagta attacccaaa
                                                                                                                                                                                               120
             teeggttgga geatgaegtg aacateeagt tteetgataa ggaegatggg aaceageeee
                                                                                                                                                                                               180
             aggaccaaat taccatcaca gggtacgaaa agaacacaga agctgccagg gatgctatac
                                                                                                                                                                                               240
             tgagaattgt gggtgaactt gagcagatgg tttctgagga cgtcccgctg gaccaccgcg
                                                                                                                                                                                                300
             ttcacgcccg catcattggt gcccgcggca aagccattcg caaaatcatg gacgaattca
                                                                                                                                                                                                360
             aggtggacat tegetteeca cagageggag ecceagacee caactgegte actgtgaegg
                                                                                                                                                                                                420
             ggctcccaga gaatgtggag gaagccatcg accacatcct caatctggag gaggaatacg
                                                                                                                                                                                                480
             tgagtetetg tgggeettgg agecetgagg egeeetggea egteeaeegg eetgaggeee
                                                                                                                                                                                                540
             agccaggagc ttcaggggac aaggtggcac ttgtgtttcc agaggcaagc naagtgcagg
                                                                                                                                                                                                600
             ggtgagcaag cnggcgggat gctgggggtg ctggggcaaa ctgaccetgt cttcctgtct
                                                                                                                                                                                                660
              teegeetgea getageetga egttgtggae agtnaangeg eetgeangtt atacatgaaa
                                                                                                                                                                                                720
              ccccagcac acgaanaagc caanggnacc tttcaaaagg ctttnttggt gccgggacca
                                                                                                                                                                                                780
              acctgggacc gccagcaacc aatnaaaaaa ggcnctgacn ttaaccaagc tcngagggaa
                                                                                                                                                                                                840
              tttcccancc tttgggggcc caaggtggct cccaaagaac cctccccntt nggggccccc
                                                                                                                                                                                                900
              aaacnaatna ttgttcaaaa anggaacaaa aacccctctc aagccc
                                                                                                                                                                                                 946
                          <210> 188
                              <211> 802
                              <212> DNA
```

<213> Homo Sapiens

17 COMPUIS A CAI OCCUPATION

<400> 188

aaagtcaagg ncgtttattt ccngaggnca tgacacanga agtggaatcc naaccacggn 60 tgcggnnnaa aagtgatgaa ggccaaagtg ctgactgaca tgccgggtgg accaaganct 120 ggagtengtt atentaacae gaatgeecan gaeettggtt taatgttaaa cantggagea 180 ngtcctganc gggcacggcc angcctggag gancggccgc acacacancc angcgcnagg 240 ctccctgcgg gacctcngga agggggaana gcgtcaacaa tttacggngg gtccaaccgc 300 tgggtcaaat tgagacaaac cantgtgtgg ttgggttcgg gtcancangc tggananggt 360 tengttentt ttgateanta nentttgggg ceceaaggga nggtentggg anceaectga 420 nccccaaagc tgggaaattc ctcaaagctg cncatgtcaa gagccttcnc antgctgctg 480 gcggtccaag gtgcgtcccg caccacaaag cctctggaag gngccntggc ctcttcctgt 540 geogggggtt teatgtntae etgeanegee teaetgteea ecaangteag etaaetgeag 600 gennaagaca ggaatnacag ggteagtetg cecaacaace ceancateec ggeeegeeet 660 ggeteaaace etgeaacett geetgeette egggaaneae aattteecae eettgtneee 720 ctgaaancen cetggnetgg ggeenteaaa ggeegttgga netteeanag gneneeceea 780 ggggntccca-angggcccac-aa-802

<210> 189

<211> 807

<212> DNA

<213> Homo Sapiens

<400> 189

aaaatggcgg cggcagcggt gtcgctttgt ttccgcggct cctgcggcgg tggcagtggt ---60 ageggeettt gagetgtggg gaggttecag cageagetae agtgaegaet aagaetecag 120 tgcatttcta tcgtaaccgg gcgcggggga gcgcagatcg gcgcccagca atcacagaag 180 ccgacaaggc gttcaagcga aaacatgacc gctgagccca tgagtgaaag caagttgaat 240 acattggtgc agaagettca tgactteett geacacteat cagaagaate tgaagaaaca 300 agtteteete cacgaettge aatgaateaa aacacagata aaateagtgg ttetggaagt 360 aactetgata tgatggaaaa cagcaaggaa gagggaacta getetteaga aaaatecaag 420 tetteaggat egteaegate aaagaggaaa eetteaattg taacaaagta tgtagaatca 480 ∑540⊹⊸ gatgatgaaa aacctttgga tgatgaaact gtaaatgaag atgcgtctaa tgaaaattca gaaaatgata ttactatgca nagcttgcca aaaggtacag tgattgttca gccagagcca < 6002 € gtgctgaatg aagacaaaga tgattttaaa ggggcctgaa tttagaagca gaagttaaaa ...660 ---tgaaaactga naatctcaaa aaacgccgga gaanatgggc ttcatgggga ttgtgangcc 720% tgcactggcn tggtggacaa caaggtcaat caatttcaaa aaggttccat ttatagacaa 780 cccttcaatg caaggtcnta tttgtta 807

<210> 190

<211> 608

<212> DNA

<213> Homo Sapiens

<400> 190

ccagttettt tttteeette ttetggetea teatetgaag atecateete ateagaggaa 60 agattggctt taatttcttc taaaagcatc ttcttggcaa ttctattctc aggatcattg 120 tegteateat cateatecae tgtgacagge actgatttag ataaggette ateteetgaa 180 gattggcaaa atccagtatg tgaagacagc actaaatttt cagtcacagg cttaattttc 240 tgttcatcgc tgcttccctc acctatagaa ttctgatcat catcttctat atcagaagaa 300 gatgaggatg taatgtcagc ttgcttcctt ttagtgcttg ttcttaggga gtttctcttt 360 ttctccttga caatgactgc cttcttttta gatgaagttc tttgcttctt ctttttacta 420 tetteangaa ettteeteag eateagatga tgatgangee aetttgtatt teettagtat 480 ttototttga acttaaattt ottotttooc toaattogag tottttoagt cacottatoa 540 gaagagttac aancatcttc tttcatggga agtatcaaga tgatgaacaa tcttgtcnct 600 tccttgaa 608

420

```
<210> 191
      <211> 786
      <212> DNA
      <213> Homo Sapiens
      <400> 191
qcactttgct gatggtggac agtgaggagg agtacttccc tgaagagatc gccaagctcc
                                                                        60
ggagggacgt ggacaacgge ctctcgctcg tcatcttcag tgactggtac aacacttctg
                                                                       120
ttatgagaaa agtgaagttt tatgatgaaa acacaaggca gtggtggatg ccggataccg
                                                                       180
gaggagctaa catcccagct ctgaatgagc tgctgtctgt gtggaacatg gggttcagcg
                                                                      . 240
atggcctgta tgaaggggag ttcaccctgg ccaaccatga catgtattat gcgtcagggt
                                                                       300
gcagcatcgc gaagtttcca gaagatggcg tcgtgataac acagactttc aaggaccaag
                                                                       360
gattggaggt tttaaagcag gaaacagcag ttgttgaaaa cgtccccatt ttgggacttt
                                                                       420
atcagattcc agctgagggt ggaggccgga ttgtactgta tggggactcc aattgcttgg
                                                                       480
                                                                       540
atgacagtea eegacagaag gaetgetttt ggettetgga tgeeeteete cagtacacat
cgtatggggt gacaccgcct agcctcagtc actctgggaa ccgccagcgc cctcccantt
                                                                       600
ggagcaagct cagtcactcc agagaggatg gaaggaaacc atctcatcgg tactccaagg
                                                                       660
ttctqqangg ccatttggga aaaccaaaac ctcgggctcn acaaccctgt ccangcctgt
                                                                       720
nctgggccaa gccaanagcc tttaaaccan aacggngccc aattaaccct ttggaaaaca
                                                                       780
                                                                       786
tcagaa
      <210> 192
      <211> 819
      <212> DNA
      <213> Homo Sapiens
      <400> 192
gacgggtaat acatatttat tgaaaatttt cttcaccgac aatggtgaaa tcaagacctc
                                                                        60
aaattacaaa acatggtggc aggtgatact tacaaaaata aagcgaaggt ctatgtttta
                                                                       120
cagatttqtq catqtttcct tcaaatctca gtctgtactg tcattaaaaa gatcatggaa
                                                                       180 -
totatgttgt tootoatgat ggaatagtaa aaaaactgca ttocactgac aaaaaaaata
                                                                       240
getttgette caaatageae aagtetttaa agtgaetttt eecaacaata aatatagaaa
                                                                        300
                                                                        360
 atageettta acaagegtet titagettgg teagggttgt ateatttgtt tggaaagtae
 atcettecce tgcagtcaga agaceceaga cageetttee agtteteceg agtetttggt
                                                                        420
 gegeacaget geeggeggga agteteactg geggeagage cactaagtee etectgaegg
                                                                        480
 gatecacagg aatetteteg atgtaccagg ageetetgee cateacagga gggcaggeee
                                                                        540
 atgtagaaca agactctaac aaacctgcag ctggaaactg gattcctttt aaaccaaccc
                                                                        600
 gccaacacag cteggntcae ceaceanege egteegtnaa aggggetete tgggeeteae
                                                                        660
 gggtcagcca ggttgccggt cacaccgaaa ggggtccttg ggcgggtgaa cctgctgcat
                                                                        720
                                                                        780
 qaanctqqcq gggngcttca accetgggct tectceggct tteggcetgg nectgggcet
 tgttgaantt gntccacaaa agaaaggcca ggagcaaca
                                                                        819
       <210> 193
       <211> 744
       <212> DNA
       <213> Homo Sapiens
       <400> 193
 cagteceage acaacetgea ggggeatetg tecageetgt tggccagget eeggcageag
                                                                         60
 tgtctgctgt acctactggc agtcagattg caaatattgg tcagcaagca aacataccta
                                                                        120
                                                                        180
 ctgcagtgca gcagccctct acccaggttc caccttcagt tattcagcag ggtgctcctc
 catcttcgca agtggttcca cctgctcaaa ctgggattat tcatcaggga gttcaaacta
                                                                        240
 gtgctccaag ccttcctcaa caattggtta ttgcatccca aagttccttg ttaactgtgc
                                                                        300
```

ctccccagcc acaaggagta gaatcagtag ctcaaggaat tgtttcacag cagttgcctg

cagttagttc tttgccctct gctagtagta tttctgttac aagtcaggtt agttcaactg

gtccttctgg aatgccttct gccccaacaa acttggttcc accacaaaat atagcacaaa 480 cccctgctac ccaaaatggt aatttggttc aaagtgttaa gtcaacctcc cttgatagca 540 actaatacaa atttgccttt ggcacaacag ataccactaa gttctaccca agttctccgc 600 acaatcatta gctcaggcaa ttggaagcca aattgaagat gccaggcgtt gcagcggagc 660 cctccttaag ttggcttacc tcaagactaa tcagttggtg acaattgggg ggaatgttca 720 gcaagtttca agattgggaa gtta 744 <210> 194 <211> 567 <212> DNA <213> Homo Sapiens <400> 194 atcaacattt atatgettta ttgaaagttg acaagtgcaa cagttaaata cagtgacacc 60 ttacaattgt-gtagagaaca-tgcacagaaa-catatgcata-taactactat-acaggtgata--1-2-0 tgcaqaaacc cctactggga aatccatttc attagttaga actgagcatt tttcaaagta 180 ttcaaccagc tcaattgaaa gacttcagtg aacaaggatt tacttcagcg tattcagcag 240 ctagatttca ggattacaca aagtgagtaa ctgtgccaaa ttcttaaaat ttctttaggt 300 gtggtttttg tcatgtagca gtttttatgt agatcmatat mtaaaagtcc acacctcctc 360 agacangcca atgaaacnac taaatttcaa totgtacaan ctaaatagta attacagtco 420 tctangtgnn caangatact tacaccacat anacaaatnt acnntacgca naacaacctt 480 catggggaag gatagcccta ggtccccagc tancctgtca ccatttttgt cactctcata 540 gttttggtgt-ccaatccatt-ggttttg-56-7--<210> 195 <211> 771 <212> DNA <213> Homo Sapiens the second second A STANDARD TO SERVER A <400> 195 and the two comments are properly gagagaacag agcaacaaga gcacaaagaa aaaaagaaga aatgaacaga ataagaacat tagttgacaa tgcatacagc tgtgatccaa ggataaaaaa gttcaaggaa gaagaaaaag 120 ccaagaaaga ancanaaaag aaagcaaaag cagaagctaa acggaaggag caagaagcta 180 aagaaaaaca aagacaagct gaattagaag ctgctcggtt agctaaggag aaagaagagg 240 aggaagtcag acagcaagca ttgctggcaa agaaggaaaa agatatccag aaaaaagcca 300 ttaagaagga aaggcaaaaa tttcgaaact catgcaagac ctggaatcat ttttctgata 360 420 atgaggcaga gcgggttaaa atgatggaag aagtggaaaa actttgtgat cggcttgaac tggcaagctt acagtgcttg aatgaaacac tcacatcatg cacaaaagaa gtnggaaagg 480 ctgctttgga aaaacagata gaagaaataa atgagcaaat cagaaaagag aaagaggaag 540 ctgaggctcg tatgcgacaa gcatctaaga acacagagaa atcaactggt ggaaggtgga 600 aaatggaagt aaaaattggg cacaaagatg ntctacaatt actaatttna aagctgtgaa 660 tcctgttncc tgctggaaca aantcaagat gggaagttat tgccaantac atgaacatac 720 attectecen engggngtee aaaaagaaac tgecaaaagn atgtttattg g 771 <210> 196 <211> 561 <212> DNA <213> Homo Sapiens <400> 196 acagtatttt cagttttatt ataaaaatgc acacacaaca aagattgtca tttcttggct 60 ctacttgcat tcagcacttg ttcttgagca gctttctttg cttttaccat ctcgacaagt 120 tecttgtate gtttcatgea gteettettt gteetgeeag geacegette tgetattttt 180 teccatettt eaggtgtatt taetgggtat gtttteaaag ettgtteeaa aagettetgt 240

tettetgttg tecaaggggt gaagtetgta tatggacett caaategtte tgaaggegtt

```
gegttgtetg ettgaggtae eactecatgt tettttttga aettateaaa tgeettttta
                                                                      360
tttangtcag ctttttgatg agggtcaagt ttttggagac tctttgcttt gccaataaca
                                                                      420
tetttggnan gttettttga etecaagagg aagaangtnt ngtteatgtn antangeaan
                                                                      480
aacqtcccat ctggaanttt tgttcnacca gggaacanac tcacaagctt taactaagta
                                                                      540
antgtngnat naccgncngn c
                                                                      561
      <210> 197
      <211> 691
      <212> DNA
      <213> Homo Sapiens
      <400> 197
cgccacaacc acaaccagca ccacagcete caccacecca gcagcageeg caacagcage
                                                                       60
egeageetea geeceageag cetecaceee caceeetee ceageageag ceeeegetgt
                                                                      120
cacagtgtan tatgaataac agtttcaccc cageteetat gateatggag ataccagaat
                                                                      180
ctggaagcac tgggaacata agtatctatg agaggattcc aggggatttt ggtgccggca
                                                                      240
gctactctca accatcagec acettcagec tagecaaget geageagetg accaacacea
                                                                      300
ttatggaccc tcatgccatg ccttatagcc attctcctgc tgtgacttcc tatgcaacca
                                                                      360
gtgtttctct gtccaataca ggactggctc agctggctcc atctcatccc ttagctggga
                                                                      420
ctcctcaagc acangccacc atgacgccac ccccaaactt ggcatccact accatgaacc
                                                                      480
tcacatctcc tctgcttcag tgcaacatgt ctgccaccaa cattggcatt cctcacacgc
                                                                      540
aggagattgc aagggcaaat gccagtgaag gggcacattt ccatccgctc caagtttggc
                                                                      600
ggcactgccc tctgcngctg ctcaccanna ngcagctggt atgggccgtn tccccaatcg
                                                                      6.6.0
ggcagtttgc caatgcaang gcttgggccc t
                                                                      691
      <210> 198
      <211> 646
      <212> DNA
      <213> Homo Sapiens
            RESERVANCE RESERVANCE
      acctatecet ggageaagta ataggaagag aatgggeaaa etggttgeae gagagaaaag
                                                                       60 ....
agaatggagt tgggagcaac acatgaactt gcgttataac attctgctgt ccagatctgc
                                                                       120: :
cctactgtgc tggtggtcgg tctgtccctc ttctcattag ccactcacag gagaggtgct
                                                                       180
tgtgcactct gattcacagg ggatgaactc aggatctcaa aagacataca aaaactanag
                                                                       240
gtatgtatca cttaagtagc tacgaaactc acaccgtgat ctcccttctg acacacatct
                                                                       300
gegecatete ttecaacata aaatanactg ttteaatggt ttgteagtta ttttteaaat
                                                                       360
cactaanatg tacagtcatc caccaacaat ttaagaaaga acctaagagg caaatcactg
                                                                       420
gggactgcta tttgagtttt atcagtcaaa ggctcaagca tcaanaccct cagttancat
                                                                       480
ttcaaagtac atactangaa acancgaggc tgggtggcgt tgtgtgcgtt anggctgatt
                                                                       540
caccaggtgg taaancaaca aagnggttaa gnctccnctt tttggattgt taattgncca
                                                                       600
tectenatte etecaaaagg getgggattt ggatttggea aagtea
                                                                       646
       <210> 199
       <211> 811
       <212> DNA
       <213> Homo Sapiens
       <400> 199
 eggeggeget ceaggtgetg acagegegag agagegegge ceteaggage aaggegaatg
                                                                        60
 tatgacaaca tgtccacaat ggtgtacata aaggaagaca agttggagaa gcttacacag
                                                                       120
 gatgaaatta tttctaagac aaagcaagta attcaggggc tggaagcttt gaagaatgag
                                                                       180
 cacaattcca ttttacaaag tttgctggag acactgaagt gtttgaagaa agatgatgaa
                                                                       240
 agtaatttgg tggaggagaa atcaaacatg atccggaagt cactggagat gttggagctc
                                                                       300
 ggcctgagtg aggcacaggt tatgatggct ttgtcaaatc acctgaatgc tgtggagtcc
                                                                       360
```

```
gagaagcaga aactgcgtgc gcaggttcgt cgtctgtgcc aggagaatca gtggctacgg
                                                                                420
          qatqaactqq ccaacacqca gcagaaactq cagaaqaqtq aqcaqtctqt ggctcaactq
                                                                                480
          qaqqaggaga agaagcatct ggagtttatg aatcagctaa aaaaatatga tgacgacatt
                                                                                540
          tececateeg aggacaaaga caetgattet accaaagage etetggatga cetttteece
                                                                                600
          aatgatgaag acgacccagg gcaaggaatc cagcagcagc acagcagtgc agccgcggct
                                                                                660
          geccageaag gengetaena agatteeege geggetgegg aegeteeaca aeetgggtga
                                                                                720
          ttcagttcgc ctcnncangg ggccgctacc aaggtaacct gttgccccct cctggcaaag
                                                                                780
          caaggneect gggaaggan cetgggagga a
                                                                                811
                <210>.200
                <211> 763
                <212> DNA
                <213> Homo Sapiens
         <400>------
           acacagtaaa tggattttat taatacagtt tatattacta agtacatatc tggcaaagct
                                                                                 60
           acatgtatac agaaatcagg aaccccccca aaaaggacag cagcaccgaa aggaatggcc
                                                                                120
           agttcacaga gaggtgcagc tctgacaaga tcctagaggc tgctagacac agcgggcagc
                                                                                180
           actggagaga gaagggaagc tgcgggaggc gccacccgtc atgcaggaga cagtgtgaga
                                                                                240
           qtcacqqqcq gctaggccat gggacgctga gcaagtcagt taaccagccc gagcttcatt
                                                                                300
           ttecteattt cetecetee gteagggeea etetegtaet tgaecaegte caegttgagg
                                                                                360
           ctctcacggc tcctgcgctt ctccatgttc tcagggtcat tgagcacttc tgccaccctc
                                                                                420
           <u>-tgtttgtgaa--cattgtcaag-accctgttta--cgagacctca--tagcagcttc--ttctaacgtt</u>
                                                                                480---
           totgoagott caaatttgoo ttgacgtotg taaagtgooc caaggttttt tagagtggtt
                                                                                540
           qtaacaqttq gnctatcaac tttgcangct ttgtaccaac cgccatactc tccaaaaaga
                                                                                600
           tgtcccatcc ttttgctttc ctttgcattc ttctctttcc tcaacaatgc atccaaatgg
                                                                                660
           gtttaatttc aacatctaca gaaccaaact ccctttcatg tgcacaagtg agaatcnctt
                                                                                720
           tgtacantgt ttccgccttc cttgaacntt ccctgtttca aaa
                                                                                763
    <210> 201
              <211> 717. ::
th and distance the same of <212> DNA compact
                                                                 人民的人民的特别主义。4.7。
          <213> Homo Sapiens
           <400> 201
           ggogaatgta tgacaacatg tccacaatgg tgtacataaa ggaagacaag ttggagaagc
                                                                                 60
           ttacacagga tgaaattatt tctaagacaa agcaagtaat tcaggggctg gaagctttga
                                                                                120
           agaatganca caattccatt ttacaaagtt tgctggagac actgaagtgt ttgaagaaag
                                                                                180
           atgatgaaag taatttggtg gaggagaaat caaacatgat ccggaagtca ctggagatgt
                                                                                240
           tggagetegg cetgagtgag geacaggtta tgatggettt gtcaaatcae etgaatgetg
                                                                                300
           tggagteega gaageagaaa etgegtgege aggttegteg tetgtgeeag gagaateagt
                                                                                360
           ggctacggga tgaactggcc aacacgcagc aagaaactgc agaagagtga gcagtctgtg
                                                                                420
           gctcaactgg aggaggagaa gaagcatctg gagtttatga atcagctaaa aaaatatgat
                                                                                480
           gacgacattt ccccatccga gggacaaaga cactgattct accaaagagc ctccggatga
                                                                                540
           ccttttcccc aatgatgaag acgaccccag ggcaagggaa tccancagca gcacagcaan
                                                                                600
           ttgcageege ggetgeecaa geaaggegge taegagatte eegeegegge tgeeggaege
                                                                                660
           tccacaacct ggtnatccaa tacgccctcn caaggggcgc taccaagggt aactgtt
                                                                                717
                 <210> 202
                 <211> 647
                 <212> DNA
                 <213> Homo Sapiens
```

<400> 202
cagtcggagt gagtttatta gaagttagaa agacacaaat acacaaatca ctgagcactt

```
caagattagt agagaaaagc agaatgccca aatttcacac acagactaca cagcaaatgc
                                                                     120
tactggggca tatcctaggg agacceggag tecgageggg geceecaggg etetaagtac
                                                                     180
cacggagcac gtgcggcaca tgccttgctg taaggcttag ttacgtcaac aggtcaccgt
                                                                     240
catgccattg caacaacacc ttgtgtgaca cttaactacc tgttaccaaa gtgaacagct
                                                                     300
aatcgctctt aatttttaaa ctcgtgtatt acacagtaaa tggattttan taatacagtt
                                                                     360
tatattacta agtacatato tggcaaagct acatgtatac agaaatcagg aacccccca
                                                                     420
aaaaggacag cagcaccgaa aggaatggcc agttcacaga nangtgcagc tctgacaaga
                                                                     480
tectagange tgetagaeae agegggeage aetggganaa gagaagggaa getgegggag
                                                                      540
gegecaacce gtcatgccag gggacagtgt ganagtcacg ggnegggcta ngccaatggg
                                                                     600
aacnootgan goaangoagt ttaaccango ocognggott caatttt 🗀
                                                                      647
      <210> 203
      <211> 786
      <212> DNA
   ---<213>-Homo-Sapiens------
      <400> 203
cagccatgga cgccatcaag aagaagatgc agatgctgaa gctggacaag gagaacgcca
                                                                       60
120
tggaggagga gcagcaggcc ctccagaaga agctgaaggg gacagaggat gaggtggaaa
                                                                      180
agtattetga ateegtgaag gaggeecagg agaaaetgga geaggeegag aagaaggeea
                                                                      240
ctgatgctga ggcagatgtg gcctccctga accgccgcat tcagctggtt gaggaggagc
                                                                      300
tggaccgggc_ccaggagcgc_ctggctacag_ccctgcagaa_gctggaggag_gcegagaagg-
                                                                      360--
eggetgatga gagegagaga ggaatgaagg teategaaaa eegggeeatg aaggatgagg
                                                                      420
agaagatgga actgcaggag atgcagctga aggaggccaa gcacatcgct gaggattcag
                                                                      480
accgcaaata tgaagaggtg gccaggaagc tggtgatcct ggaaggagag ctggagcgct
                                                                      540
cggaggagan ggctgaggtg gccgagagcc gagccagaca gctggaggag gaacttcgaa
                                                                      600
ccatggacca ngccctcaag tccctgatgg cctcanagga ggagtattcc accaaagaag
                                                                      660
attaatatga agaggagatn aaactgttgg anggagaagc tgaanggagg ctganacccc
                                                                      720
aagcaaaagt ttgccnaaaa ggtctgtggg caaaaatttg ggngaaaaac catcnaatga
                                                                     . 780
acctta
                                                                      786
                                 Control of the Control of the Control
      <210> 204
                                Commence of the Commence
      <211> 738
      <212> DNA
      <213> Homo Sapiens
      <400> 204
ggctagtaac atcagtttta ttgggttggg gtggcaacca tagcctggct gggggtgggg
                                                                       60
ctggccctca caggttgttg agttccagca gggtctggtc caaggtctgg tgaatctcga
                                                                      120
egtteteete ettggeactg gecaaggtet ettetaggte ategatggtt ttetecaact
                                                                      180
ttgccacaga cctctcggca aactctgctc gggtctcagc ctccttcagc ttctcctcca
                                                                      240
acagtttgat etectettea tatttatett etttggtgga ataeteetee tetgaggeea
                                                                      300
tcagggactt gagggcctgg tccatggttc gaagttcctc ctccagctgt ctggctcggc
                                                                      360
teteggeeae eteageeete teeteegage geteeagete teetteeagg ateaceaget
                                                                      420
tcctggccac ctcttcatat ttgcggtctg aatcctcagc gatgtgcttg gcctccttca
                                                                      480
getgeatete etgeagttee atetteteet cateetteat ggeeeggttt tenatgaeet
                                                                      540
teatteetet etegetetea teageeegee tteteggete eteeagette tgeanggetg
                                                                      600
tanccaange geteetggge eeggteaane teeteeteaa eaagetgaat geggeggtte
                                                                      660
aaggaaggca anatctgcct caacaacaat tggccttctt cncggccngc tccaattttc
                                                                      720
nccnggggcc tccttcaa
                                                                      738
       <210> 205
```

<211> 818

マイシ ノノノシマムシン

<212> DNA

<213> Homo Sapiens

<400> 205	
gctagtaaca tcagttttat tgggttgggg tggcaaccat agcctggctg ggg	gatagaac 60
tggccctcac aggttgttga gttccagcag ggtctggtcc aaggtctggt gaa	
gttctcctcc ttggcactgg ccaaggtctc ttctaggtca tcgatggttt tct	
tgccacagac ctctcggcaa actctgctcg ggtctcagcc tccttcagct tct	
cagtitigate tecteticat attitatetic titiggiggaa tactectect etg	
cagggacttg agggcctggt ccatggttcg aagttcctcc tccagctgtc tgg	
	- -
ctcggccacc tcagccctct cctccgagcg ctccagctct ccttccagga tca	
cotggecace tetteatatt tgeggtetga ateeteageg atgtgettgg cet	_
ctgcatctcc tgcagttcca tcttctcctc atccttcaag gcccggtttt cga	
teatteetet eteggetete ateageegee tteteggget enteeaaget tet	
tgtanncann ggctcctggg gcccgggtnc aagntcctcc tcaaacangc tna	
gagggtttca_nggaagggcc_aaaatctggc_ctnnagnatc_aattggcttt_ctt	
nctngcncca attttctccn ggggcctncc tttcangggg tnaagaanaa att	
caaceteggt teceettnaa ententnetg gaaggget	818
<210> 206	
<211> 927	•
<212> DNA	
<213> Homo Sapiens	
<400> 206	
·	gaacgcca 60
cagocatgga ogcoatcaag aagaagatgo agatgotgaa gotggacaag gag	
tegacegege egageaggee gaageegaea agaageaage tgaggaeege tge	
tggaggagga gcagcaggcc ctccagaaga agctgaaggg gacagaggat gag	
agtattctga atccgtgaag gaggcccagg agaaactgga gcaggccgag aag	
ctgatgetga ggeagatgtg geeteeetga acegeegeat teagetggtt gag	
tggaccgggc ccaggagcgc ctggctacag ccctgcagaa gctggaggag gcc	
cggctgatga gagcgagaga ggaatgaagg tcatcgaaaa ccgggccatg aag	
agaagatgga actgcaggag atgcagctga aggaggccaa gcacatcgct gag	
accgcaaata tgaagaggtg gccaggaagc tggtgatcct ggaaggagag ctg	
cggaggagag ggctgaggtg gccgagagcc gagccagaca gctggaggag gaa	
ccatggacca ggccctcaag tccctgatgg cctcagagga ggagtattcc acc	and the second s
ataaatatga agaggagatc aaactgttgg aggagaagct gaaggaggct ga	
cagagtttgc cgagaggtct gtggcaaagt tggagaaaac catcgatgac cta	
ccttggccag tgccaaggag gagaacgtcg agattcacca gaccttggac cag	
tggaactcaa caacctgtga gggccagccc cacccccagc caggetatgg ttg	
aacccaataa aactgatgtt actagcc	927
	•
<210> 207	
<211> 910	·
<212> DNA	
<213> Homo Sapiens	•
<400> 207	
ggaagatggc ggcggccgtt ccacagcggg cgtggaccgt ggagcagctg cg	•
agetgeecaa gaaggacatt ateaagttte tgeaggaaca eggtteagat te	- '
cagaacataa attattagga aacattaaaa atgtggccaa gacagctaac aa	
tggttacagc ctataaccat ctttttgaaa ctaagcgttt taagggtact ga	
gtaaagtgtc tgagcaagta aaaaatgtga agcttaatga agataaaccc aa	
agtotgaaga gaccotggat gagggtocac caaaatatac taaatotgtt ot	
gagataaaac caactttccc aaaaagggag atgttgttca ctgctggtat ac	
tacaacatoo cactottttt catactaata ttcaaacaao tocaaacaao aa	idaaaaata 480

480

tacaagatgg gactgttttt gatactaata ttcaaacaag tgcaaagaag aagaaaaatg

```
ccaagcettt aagttttaag gteggagtag geaaagttat cagaggatgg gatgaagete
                                                                      540
tcttgactat gagtaaagga gaaaangctc gactggagat tgaaccagaa tgggcttacg
                                                                      600
gaaagaaagg acagcctgat gccaaaattc caccaaatgc aaaactcact tttgaagtgg
                                                                      660
nantatggga tattgattga aatagcagtg enteageten aggntattag caacaatgat
                                                                      720
taaaacntgg ncttgaaaga aaatttcaca actagttnag aaacttgtta ccaaatggta
                                                                      780
aaggaaaaag tcaactggga aaaattcaag ggngttaana aaaanttggt ttacctgggg
                                                                      840
eccaageett ttgngaaaaa aaaaneeeet tatgaaanee eengggeeca aaaanaettt
                                                                      900
tccnaaaacc
                                                                      910
      <210> 208
      <211> 745
      <212> DNA
      <213> Homo Sapiens
 <400> 208
gacagtggat caatttttat tgagccactt aagtttacaa catgaggtaa aaggaaaaag
                                                                      60
ttctccttga ccagtatttt acacagctgt aggaaagtat tttagaccag ggattcataa
                                                                      120
gggatttatc tctcaaaagc tgggaccaag taaacaaatt ttattaactc cttgaatttt
                                                                      180
ccagttgact cttcctttac aatagtaaca agttctaact agttgtgtaa atttcttcaa
                                                                      240
ggccaagttt tatcattgtt gctaatatcc ttagagctga agcactgcta tttcaatcaa
                                                                      300
tatccactaa ttccacttca aaagtgagtt ttgcatttgg tggaattttg gcatcaggct
                                                                      360
gtcctttctt tccgtaagcc cattctggtt caatctccag tcgagccttt tctcctttac
                                                                      420
tcatagtcaa gagagettca teccatecte tgataaettt geetaeteeg acettaaaae
                                                                      480
ttaaaggett ggeattttte ttettetttg caettgtttg aatattagta teaaaaacag
                                                                      540
tcccatcttg tagtgttcct gtataccaag caagtgaaca acatcnccct ttttgggaaa
                                                                      600
gttggtttaa cccccttttt cagaacagat ttaagtanat tttgggggac cctcanccaa
                                                                      660
ggggtcnctt canaactggg tttccttggg gtttaacctt cattnagcct canaattttt
                                                                      720
tachtggcen cagacacttt tactt
                                                                      745
                                and the group was an included
      <210> 209
                             <211> 965
      <212> DNA
                                Control of the Cartesian Cartesian
      <213> Homo Sapiens
                                  14 4 A 1 2 A 2 A
      <400> 209
ggaagatgge ggeggeegtt ceacageggg egtggacegt ggageagetg egeagtgage
                                                                       60
agetgeecaa gaaggaeatt ateaagttte tgeaggaaca eggtteagat tegtttettg
                                                                      120
cagaacataa attattagga aacattaaaa atgtggccaa gacagctaac aaggaccact
                                                                      180
tggttacagc ctataaccat ctttttgaaa ctaagcgttt taagggtact gaaagtataa
                                                                      240
gtaaagtgtc tgagcaagta aaaaatgtga agcttaatga agataaaccc aaagaaacca
                                                                      300
agtotgaaga gaccotggat gagggtocac caaaatatac taaatotgtt otgaaaaagg
                                                                      360
gagataaaac caactttccc aaaaagggag atgttgttca ctgctggtat acaggaacac
                                                                      420
tacaagatgg gactgttttt gatactaata ttcaaacaag tgcaaagaag aagaaaaatg
                                                                      480
ccaagcettt aagttttaag gteggagtag geaaagttat cagaggatgg gatgaagete
                                                                      540
tettgaetat gagtaaagga gaaaaggete gaetggagat tgaaccaaga atgggettae
                                                                      600
ggaaagaaag gacagcctga tgccaaaatt ccaccaaatg caaaactcac ttttgaagtg
                                                                      660
gaattagtgg atattgattg aaatagcagt gcttcagcct ccaagggata ttagcaacaa
                                                                      720
 tgaataaaac tttggncttg angaaaattt acacaaccta gtttagaacc ttgttactat
                                                                      780
 tgttaaagga aagaagtcaa ctgggnaaaa ttcaagggag ttaataaaat ttgtttactt
                                                                      840
 ggncccagcc ttttgagaga taaatccctt angaaancct ggtccnaaaa tactttccta
                                                                      900
 aagnetgtgt taaataceng ggneaagggn gaaaettttt eeetttaeen caagggtggt
                                                                      960
 aaact
                                                                      965
```

<210> 210 <211> 867 ₹₹₩ 27/109403 1 € 1/ 0070/1907 /

<212> DNA

<213> Homo Sapiens

```
<400> 210
caagacagtg gatcaatttt tattgagcca cttaagttta caacatgagg taaaaggaaa
                                                                        60
aagtteteet tgaccagtat tttacacage tgtaggaaag tattttagae cagggattea
                                                                       120
taagggattt atctctcaaa agctgggacc aagtaaacaa attttattaa ctccttgaat
                                                                       180
tttccagttg actiticctt tacaatagta acaagttcta actagttgtg taaatttctt
                                                                       240
caaggccaag ttttatcatt gttgctaata tccttagagc tgaagcactg ctatttcaat
                                                                       300
caatatccac taattccact tcaaaagtga gttttgcatt tggtggaatt ttggcatcag
                                                                       360
getgteettt ettteegtaa geceattetg gtteaatete eagtegagee tttteteett
                                                                       420
tactcatagt caagagaget teateceate etetgataae titgeetaet eegacettaa
                                                                       480
aacttaaagg cttggcattt ttcttcttct ttgcacttgt ttgaatatta gtatcaaaaa
                                                                       540
cagteceate ttgtagtgtt cetgtatace angeagtgaa caacatetee etttttggga
                                                                       600
aagtttgggt ttaactccct tttttcagaa caagatttag taaaattttg gnnggaccct
                                                                       660
caatccaagg gtctcttcaa nacttgggtt cctttggggt ttaancctca attaagcctc
                                                                       720
acaatttttt acttggctca agaaancntt tacttaaacc tttcaggtac cctttaaaaa
                                                                       780
neettangtt ttaaaaaaaa tgggttataa gggetggtaa eenaaggttg ggeeettggt
                                                                       840
aaccngttct tggggcaaaa tttttaa
                                                                       867
      <210> 211
      <211> 972
      <212> DNA
      <213> Homo Sapiens
      <400> 211
ggaagatgge ggeggeegtt ceacageggg egtggaeegt ggageagetg egeagtgage
                                                                        60
agetgeecaa gaaggaeatt ateaagttte tgeaggaaca eggtteagat tegtttettg
                                                                       120
cagaacataa attattagga aacattaaaa atgtggccaa gacagctaac aaggaccact
                                                                       1.80
tggttacagc ctataaccat ctttttgaaa ctaagcgttt taagggtact gaaagtataa
                                                                       240
gtaaagtgtc tgagcaagta aaaaatgtga agcttaatga agataaaccc aaagaaacca
                                                                       300
agtotgaaga gaccotggat gagggtocac caaaatatac taaatotgtt otgaaaaagg
                                                                       360
gagataaaac caactttccc aaaaagggag atgttgttca ctgctggtat acaggaacac
                                                                       420
tacaagatgg gactgttttt gatactaata ttcaaacaag tgcaaagaag aagaaaaatg
                                                                       4.80
ccaagcettt aagttttaag gteggagtag geaaagttat eagaggatgg gatgaagete
                                                                       540
tcttgactat gagtaaagga gaaaaggctc gactggagat tgaaccagaa tgggcttacg
                                                                       600
gaaagaaagg acageetgat gecaaaatte caccaaatge aaaacteact tttgaagtgg
                                                                       660
aattagtgga tattgattga aatagcagtg cttcagctct aaggatatta gcaacaatga
                                                                       720
taaaacttgg ccttgaagaa atttacacaa ctagttagaa cttgttacta ttgtaaagga
                                                                       780
agagtcaact ggaaaattca aggagttaat aaaatttgtt tacttggtcc cagcttttga
                                                                       840
gagataaatc ccttatgaat ccctggtcta aaatactttc ctacagctgt gtaaaatact
                                                                       900
ggtcaaggag aactttttcc ttttacctca tgttgtaaac ttaagtggct caataaaaat
                                                                       960
tgatccactg tc
                                                                       972
      <210> 212
      <211> 817
      <212> DNA
      <213> Homo Sapiens
      <400> 212
aacggeteta agggttatge etttgteeae ttegagaeee aagaggetge egacaaggee
                                                                        60
```

atcgagaaga tgaatggcat gctcctcaat gaccgcaaag tatttgtggg cagattcaag 120 tctcgcaaag agcgggaagc tgagcttgga gccaaagcca aggaattcac caatgtttat 180 atcaaaaact ttggggaaga ggtggatgat gagagtctga aagagctatt cagtcagttt 240

A しょししりノリニマリテノ

```
tttgtgagtt acgaaaaaca cgaggatgcc aataaggctg tggaagagat gaatggaaaa
                                                                      360
gaaataagtg gtaaaatcat atttgtaggc cgtgcacaaa agaaagtaga acggcaggca
                                                                      420
gagttaaaac ggaaatttga acagttgaaa caggagagaa ttagtcgata tcagggggtg
                                                                      480
aatctctaca ttaagaactt ggatgacact attgatgatg agaaattaag gaaagaattt
                                                                      540
tctccttttg gatcaattac cagtgctaag gtaatgctgg aggatggaag aagcaaaggg
                                                                      600
tttggcttcg tctgcttctc atctcctgaa gaancaacca aagcagtcac tggagatgaa
                                                                      660
tggacgcatt ttggggctcc aaccactata tgttgccctg gccccanagg aagggaanag
                                                                      720
agaaaggntc accttgacca accagtttta tgcaacgaan tggctgggaa tngagaacca
                                                                      780
cttcccnqcc aatgccaatc tttaaantca gnttcca
                                                                      817
      <210> 213
      <211> 756
      <212> DNA
      <213> Homo Sapiens
      <400> 213
ctttgatgtg attaagggaa agccaatccg catcatgtgg tctcagaggg atccctcttt
                                                                       60
gagaaaatet ggtgtgggaa acgtetteat caagaacetg gacaaateta tagataacaa
                                                                      120
ggcactttat gatacttttt ctgcttttgg aaacatactg tcctgcaagg tggtgtgtga
                                                                      180
tgagaacggc tctaagggtt atgcctttgt ccacttcgag acccaagagg ctgccgacaa
                                                                      240
ggccatcgag aagatgaatg gcatgctcct caatgaccgc aaagtatttg tgggcaqatt
                                                                      300
caagtetege aaagageggg aagetgaget tggageeaaa gecaaggaat teaceaatgt
                                                                      360
ttatatcaaa aactttgggg aagaggtgga tgatgagagt ctgaaagagc tattcagtca
                                                                      420
gtttggtaag accctaagtg tcaaggtgat gagagatccc aatgggaaat ccaaaggctt
                                                                      480
tggctttgtg agttacgaaa aacacgagga tgccaataag gctgtggaag agatgaatgg
                                                                      540
aaaagaaata agtggtaaaa tcatatttgt aggccgtgca caaaagaaag tagaacqqca
                                                                      600
agcagagtta aaacggaaat ttgaacagtt gaaacaggag agaattagtc gatatcangg
                                                                      660
ggtgaatccc cacattaaga acttggatga cactattgat gatgaagaaa attaaggaaa
                                                                      720
agaatttten centttggga tnaattaaca agttge
                                                                      756
     PRODUCT COLUMN AND A DESCRIPTION OF THE SECOND
     en Ton Konstiato
     * <211>;728;;;(**;**, t;; (**, **) **
                                    81879 -
     <212>; DNA ....
      <213> Homo Sapiens
             <400> 214
atggagattt tttttcttta ttgggaaacg taagacttgg gtacatcaaa taaaaccaat
                                                                       60
ttctggggga aaaaatcaaa ncccacaata aaaaaaaagt taacactgtc tgggccacag
                                                                       120
cagaacccaa agaacatatt cgtataattg aaaaattcta ggtgcttcat aattgacctt
                                                                       180
ttgatacaaa atgacctatt aaatttgcaa tttgtaatcc ttggtgttga ggtccatagg
                                                                       240
acaagctagg aagtcttcaa accttgagtt gaattccata aggggttatt tggcttttga
                                                                       300
atoggttttt cottgtotaa gaggtagoag cagcaacago goocacotto tgggcagott
                                                                       360
etttettgge atgatgagee tgtagaactg etacagette atecacettg gageggagag
                                                                       420
actoggggga ctctaacatg tgcagcagct canagttgtc tatctccagc agcattcccg
                                                                       480
tgatcttccc agccagattt gaatgcattg tttggatgan tgggaacaag cgttctccca
                                                                       540
gcatctgctt ctgttcctgg gggggtgctg canccaacag gaggcaatca ntggntccng
                                                                       600
gecetgeaca tggacegeaa ggetggggtg cetgeaaaan getgtatgge aaggatgaag
                                                                       660
ggctgccgac actgggaagg cggtattngt aggggggcaa aaancccggg gaagcancag
                                                                       720
 caacaaca
                                                                       728
       <210> 215
```

na prika n

3-24-24

5 44 4

18. Sec. 17.

<211> 710

マ・ ひ ノノ/ひずかひろ

<212> DNA

<213> Homo Sapiens

なし クンハロマルロン

エ シスノ シロノロノエマリノ

3477

 $y \in L^{\infty}(\mathbb{R}^{N}) \times \mathbb{R}^{N}$

749

```
<400> 215
  atgganattt tttttcttta ttgggaaacg taagacttgg gtacatcaaa taaaaccaaa
                                                                         60
  atctggggga aaaaatcaaa acccacaata aaaaaaaagt taacactgtc tgggccacag
                                                                        120
  canaacccaa agaacatatt cgtataattg aaaaattcta ggtgcttcan aattgacctt
                                                                        180
  ttgatacaaa atgacctatt aaatttgcaa tttgtaancc ttggtgttga ggtccatagg
                                                                        240
  acaagctagg aagtcttcaa accttgagtt gaattccana aggggttatt tggcttttga
                                                                        300
  ateggttttt cettgtetaa naggtageag cageaacage geceacette tgggeagett
                                                                        360
  ctttcttggc atgatgagcc tgtanaactg ctacagettc atccacettg gagegganag
                                                                        420
  actoggggga ctctaacatg tgcagcagct canagttgtc tatctccagc agcattcccg
                                                                        480
  tgatcttccc agccagattt gaatgcattg tttggatgan tgggaacaag cgttctccca
                                                                        540
  gcatctgctt ctgttcctgn gggggtgctg canccangca tggaggcaan tcagtggctc
                                                                        600
  ctgcccctgc acaatggacc gcaaggctgg ggggtgcctg canaaggctg tttgggcaag
                                                                        660
  gangaagggc ctgcggaana ctgggangcg tatttgttan ggggggcaaa
                                                                        710
        <210> 216
        <211> 824
        <212> DNA
        <213> Homo Sapiens
        <400> 216
  catggcctcc ctgtacgtgg gcgacctgca ttcggacgtc accgaggcca tgctgtacga
                                                                         60
  aaagttcage ceegeggge etgtgetgte cateegggte tgeegegata tgateaceeg
                                                                        120
  cegeteectg ggetatgeet acgteaactt ceageageeg geegacgetg agegggettt
                                                                        180
  ggacaccatg aactttgatg tgattaaggg aaagccaatc cgcatcatgt ggtctcagag
                                                                        240
  ggatccctct ttgagaaaat ctggtgtggg aaacgtcttc atcaagaacc tggacaaatc
                                                                        300
  tatagataac aaggcacttt atgatacttt ttctgctttt ggaaacatac tgtcctgcaa
                                                                        360
  ggtggtgtgt gatgagaacg gctctaaggg ttatgccttt gtccacttcg agacccaaga
                                                                        420
  ggctgccgac aaggccatcg agaagatgaa tggcatgctc ctcaatgacc gcaaagtatt
                                                                      480
 kgtgggcaga ttcaagtctc gcaaagagcg ggaagctgag cttggagccakaagccaagga 🚟 540 🛒
attcaccaat gtttatatca aaaactttgg ggaanaggtg gatgatgaga gtctgaaaga aaaactttgg
agctattcan tcaagtttgg taagacccta agtgtcaang tgatgagaga tccaatggga
                                                                     660
aatccaaaag getttggget ttgtgagttn acgaaaaaca enaggatgee aataaggetg 20 720
 ttggaaagaa atgaatggga aaagaaataa antggtaaaa tcataatttg tagggccgtn
                                                                      780
 cacaaaaaga aagtttaaac gggnaggcaa aatttaaaac cggg
                                                                        824
        <210> 217
        <211> 749
        <212> DNA
        <213> Homo Sapiens
        <400> 217
  atggagattt tttttcttta ttgggaaacg taagacttgg gtacatcaaa taaaaccaat
                                                                          60
  ttctggggga aaaaatcaaa acccacaata aaaaaaaagt taacactgtc tgggccacag
                                                                         120
  cagaacccaa agaacatatt cgtataattg aaaaattcta ggtgcttcat aattgacctt
                                                                         180
  ttgatacaaa atgacctatt aaatttgcaa tttgtaatcc ttggtgttga ggtccatagg
                                                                         240
  acaagctagg aagtetteaa acettgagtt gaatteeata aggggttatt tggettttga
                                                                         300
  ateggtittt cettgtetaa gaggtageag cageaacage geceaeette tgggeagett
                                                                         360
  ctttcttggc atgatgagcc tgtagaactg ctacagcttc atccaccttg gagcggagag
                                                                         420
  actoggggga ctctaacatg tgcagcagct cagagttgtc tatctccagc agcattcccg
                                                                         480
  tgatcttccc agccaagatt tgaatgcatt gtttggatga gtgggaacaa gcgttctccc
                                                                         540
  agcatetgen tetgtteetg ggggggtget geateeagea tgggangean teagtggete
                                                                         600
  ctgcccctgc acatgggacc gcaaggctgg ggtgcctgca naggctgtat gggaaggatg
                                                                         660
  nagggetgee ggneaactgg ganggegtat ttgtaggggg caaacaagee eggggaagea
                                                                         720
```

nccagcagca acancaacng cttggcgcc

Ÿ♥♥ プブ/U♥≴Uご よ ♥ス / ♥20/U3 TU / /

```
<210> 218
      <211> 600
      <212> DNA
      <213> Homo Sapiens
      <400> 218
ctttattggg aaacgtaaga cttgggtaca tcaaataaaa ccaatttctg ggggaaaaaa
                                                                        60
tcaaaaccca caataaaaaa aaagttaaca ctgtctgggc cacagcagaa cccaaagaac
                                                                       120
atatteqtat aattgaaaaa ttetaggtge tteataattg acettttgat acaaaatqae
                                                                       180
ctattaaatt tgcaatttgt aatccttggt gttgaggtcc ataggacaag ctaggaagtc
                                                                       240
ttcaaacctt gagttgaatt ccataagggg ttatttggct tttgaatcgg tttttccttg
                                                                       300
tetaaqaqqt aqcancaqca acagegeeca cettetqqqe aqettettte ttqqcatqat
                                                                       360
qancetqtag aactgctaca gcttcatcna cettggageg gngagaeteg ggggaeteta
                                                                       420
acatgtgcag cageteagag ttgtenatet ecaageagea tteeegtgat etteecagee
                                                                       480
anatttgaat gcattgtttg ggatgangtg gggaanaage gtteteneag cannengett
                                                                       540
enggtneenn ggagggggt gentgeaage ceageattga aggeaagtte antggeteet
                                                                       600
      <210> 219
      <211> 1077
      <212> DNA
      <213> Homo Sapiens
      <400>-219-
catggcctcc ctgtacgtgg gcgacctgca ttcggacgtc accgaggcca tgctgtacga
                                                                        60
aaagttcage eeegegggge etgtgetgte cateegggte tgeegegata tgateaceeg
                                                                       120
cogetecoty ggetatgeet acgteaactt coageageeg geogacgetg ageggettt.
                                                                       180
ggacaccatg aactttgatg tgattaaggg aaagccaatc cgcatcatgt ggtctcagag
                                                                       240
ggatecetet tigagaaaat etggtgtggg aaaegtette ateaagaace tggacaaate
                                                                       300
tatagataac aaggcacttt atgatacttt: ttctgetttt ggaaacatac tgteetgeaa
                                                                       360
ggtggtgtgt gatgagaacg gctctaaggg: ttatgccttt gtccacttcg agacccaaga
                                                                       420
ggetgeegae aaggeeateg agaagatgaa tggeatgete etcaatgace geaaagtatt
                                                                       480
tgtgggcaga ttcaagtctc gcaaagagcg ggaagctgag cttggagcca aagccaagga
                                                                       540
attcaccaat gtttatatca aaaactttgg@ggaagaggtg gatgatgaga gtctgaaaga
                                                                       600
gctattcagt cagtttggta agaccctaag tgtcaaggtg atgagagatc ccaatgggaa
                                                                       660
atocaaaggo tttggctttg tgagttacga aaaacacgag gatgccaata aggctgtgga
                                                                       720
agagatgaat ggaaaagaaa taagtggtaa aatcatattt gtaggccgtg cacaaaaqaa
                                                                       780
agtagaacgg caagcagagt taaaacggaa atttgaacag ttgaaacagg agagaattag
                                                                       840
tcgatatcan ggggtgaatc cccacattaa gaacttggat gacactattg atgatgagaa
                                                                       900
attaaggaaa gaattttctc cttttggatc aattaccagt gctaaggtaa tgctggagga
                                                                       960
tggaagaagc aaagggtttg gcttcgtctg cttctcatct cctgaagaan caaccaaagc
                                                                      1020
agtcactgga gatgaatgga cgcattttgg ggctccaacc actatatgtt gccctgg
                                                                      1077
       <210> 220
       <211> 1007
       <212> DNA
       <213> Homo Sapiens
       <400> 220
 actacatega tegegtggae gageeettgt cetgetetta tgtgetgaee attegeaete
                                                                         60
```

actacatega tegegtggac gagecettgt cetgetetta tgtgetgace attegeacte 60 eteggetetg ecceacect etecteegge ecceaceag tgetgeaceg eaggecatee 120 tetgteacec tteectacag ectgaggagt acatggeeta egtteagagg eaageegact 180 eaaageagta tggagataaa ateatagagg agetgeaaga tetaggeece eaagtgtgga 240 gtgagaceaa gtetggggtg geaceceaaa agatggeagg tgegageeeg aceaaggatg 300 acagtaagga eteagatte tggaagatge ttaatgagee agaggaecag geeceaggag 360 gggaggaggt geeggetgag gageaggace eaageeetga ggeageagat teagettetg 420

<211> 747 <212> DNA

```
gtgctcccaa tgattttcag aacaacgtgc aggtcaaagt cattcgaagc cctgcggatt
                                                                       480
tgattcgatt catagaggag ctgaaaggtg gaacaaaaa ggggaagcca aatataggcc
                                                                       540
aagagcagcc tgtggatgat gctgcagaag tccctcagag ggaaccagag aaggaaaggg
                                                                       600
gtgatccaga acggcagaga gagatggaag aagaggagga tgaggatgag gatgaggatg
                                                                       660
aagatgagga tgaacggcag ttactgggag aatttgagaa ngaactggaa gggatcctgc
                                                                       720
ttccgtcaga ccgagaccgg ctccgttcgg aggtgaangc tggcatggag ccgggaactg
                                                                       780
gnaaacatca tccaggagac angagaaaga nctgggaccc anatggggct gaagaangga
                                                                       840
tcagaatccg ggatcgggca atgctggctc tcaaaatcaa ctctcaacaa antcattaaa
                                                                       900
aagactggag ggaaaaacaa gagttccaaa ncctggtgaa nnaagcncat aaaaaagaag
                                                                       960
gttgtcccaa aaaagnctcc cccatcaanc caaccctnca gggaaaa
                                                                      1007
      <210> 221
      <211> 833
      <212> DNA
      <213> Homo Sapiens
      <400> 221
ccgactcaaa gcagtatgga gataaaatca tagaggagct gcaagatcta ggcccccaag
                                                                        60
tgtggagtga gaccaagtct ggggtggcac cccaaaagat ggcaggtgcg agcccgacca
aggatgacag taaggactca gatttctgga agatgcttaa tgagccagag gaccaggcc
                                                                       120
                                                                       180
caggagggga ggaggtgccg gctgaggagc aggacccaag ccctgaggca gcagattcag
                                                                       240
cttctggtgc tcccaatgat tttcagaaca acgtgcaggt caaagtcatt cgaagccctg
                                                                       3.0.0
cggatttgat tcgattcata gaggagctga aaggtggaac aaaaaagggg aagccaaata
                                                                       360
taggccaaga gcagcctgtg gatgatgctg cagaagtccc tcagagggaa ccagagaagg
                                                                       420
aaaggggtga tccagaacgg cagagagaga tggaagaaga ggaggatgag gatgaggatg
                                                                       480
aggatgaaga tgaggatgaa cggcagttac tgggagaatt tgagaangaa ctggaaggga
                                                                       540
tectgettee gteagacega gaceggetee gtteggaggt gaangetgge atggageegg
                                                                       600
gaactggnaa acatcatcca ggagacanga gaaaganctg ggacccanat ggggctgaag
                                                                       660 A R. L. L.
aanggatcag aatccgggat cgggcaatgc tggctctcaa aatcaactct caacaaantc
                                                                     % 720 944 Period vg
attaaaaaga ctggagggaa aaacaagagt tccaaancct ggtgaannaa gcncataaaa
                                                                     16-780 see constaur.
aagaaggttg teccaaaaaa gneteecca teaaneeaac eetneaggga aaa
                                                                     - ಆ 833 ಕ್ರಾಗ್ರೆಕ್ ಪಟ್ಟಿರುದುಕ್ಕು
 等的一名,唯一第一个全体和企业等的发展的一点。
                                                                      William D. St. Stranger.
  and the second
                                                                      1、14、12年1月4日安全17年
      <211> 745
                                                                          1 - 1 - 1 - p
      <212> DNA
                                                                            <213> Homo Sapiens
      <400> 222
ggattgatgg tecagttgtt tatttagaaa eetgattgtt caagaacatg gtgggtgett
                                                                        60
cacacetttt teactgggat tgtgetggag gtgataggea geattetace attteeteag
                                                                       120
caacagaggt gaaggeteet caacteagaa geacaaattg taggggacag ggtgggcagg
                                                                       180
gaaagggaga aggaaatccc aaggcaattc aatagaagag ggtaaaacga ctccaaacat
                                                                       240
cactaaggge aggtggggge etgettgete agtgeetget aagtgteetg eceteettge
                                                                       300
tetetetace cacetecact caaaagatee tactgaatet ccaggtagge agcagggaat
                                                                       360
atcctatcat taggggacaa taacaggaaa agccacagag gagaggaaga ggattgagtg
                                                                       420
agagttcagg agagcaaata tcacaggccc ggtgaggtct caaggtggct gccagcaggg
gcagcaagca ttcacccagg gcccccacac ccacagagtt gcccgagang tccacaagct
                                                                       480
                                                                       540
cagetecaet etgetgtttg geeeteaagg gttecagggt ggggaagtgg ggaagaggea
                                                                       600
ngccagtcca ggaagatctg gattccgtga angggtcaag tgtagtgttg gtctcagaag
                                                                       660
tcaaattntc caagtcccct gttgccctcc ccacctggag aagccccana cccggnggta
                                                                       720
attgctcncc anctccttct gccgc
                                                                       745
      <210> 223
```

<213> Homo Sapiens

<400> 223					
actacatega tegegtggad	gagecettgt	cctgctctta	tgtgctgacc	attogcacto	60
ctcggctctg ccccaccct					120
totgtcacco ttocctacas	cctgaggagt	acatggccta	cqttcaqaqq	caagegact	180
caaagcagta tggagataaa	atcatagagg	agctgcaaga	tctaggcccc	caagtgtgga	240
gtgagaccaa gtctggggtg	gcaccccaaa	agatggcagg	tacasaccca	accaaccatc	300
acagtaagga ctcagattt	togaagatoc	ttaatgaggg	agaggaccag	accaaggatg	
gggaggaggt gccggctgag	i dadcaddacc	caageetga	agaggactag	toagattata	360
gtgctcccaa tgattttcag					420
tgattcgatt catagaggag	, ctgaaaggtg	gaggagaaa	addasadds	astataggatt	480
aagagcagcc tgtggatgat	. actacaasa	tccctcacac	ggggaagcca	aacacaggee	540
gtgatccaga acggcagaga	gadatoddaa	ngaagangan	ggaaccagag	aangaaaggg	600
atgaaagann aaggatgaaa	caaacaaatt	actogggaaan	gatgaggatg	aggajtgaggg	660
ggaaagggat teetggetti		accygggaan	aaccccgana	aagggaactg	720
ggaaagggac cootggotti	. cogecca				747
<210> 224			•		
<211> 618					
<212> DNA		•			
<213> Homo Sap	eng				
taro, nomo bap.	CIID			. •	
<400> 224					
gatggtccag ttgtttatt	: agaaacctga	ttattcaaga	acatggtggg	tacttacacac	60
ctttttcgct gggattgtg					60
gaggtgaagg ctcctcaact	cagaaggaga	aattataaaa	dacadataa	GCRGGGGG	120
ggagaaggaa atcccaagg	: aattcaataq	aadagggtaa	aaccactcca	gcagggaaag	180
agggcaggtg ggggcctgct	: tactcaatac	ctactaaata	tectaceeta	attactate	
Market Marketaccacct ccactcaaa	gatectacte	aatctccacc	tanggangan	cccgccccc.	300
# 1 for was the attacked gage gacaatance	. gaceecaceg	cadaddadad	gaagagatt	ggaatateet.	
1/4 Clarence of the angacag caaattate	. ggaaaagcca	gagggagag	patangatas	gaytganaag	.420
1 4 Mark Was Acaancagcat teacecange	r deceesage	gaggtettaa	agagagaga	-caacaagggg	480
The second of th	, gecectacaec	gggttggaan	gttggngaag	cecacanete	540
aaggcanccc antoccag	ggccccaag	gggccccaan	greegngaaa	grgggggggg	
adggeanece anecedag				•	.618
<210> 225					•
<211> 765			·	•	
<212> DNA					
<213> Homo Sap	ens				
talor nome bup.					
<400> 225					
caaacatcag agactgcat	g ctggagagaa	acttoaacaa	tataaaaaa	ccttaagaaa	60
ggatgaggag cttagaaaa	a adcadadaac a adcadadaac	tcaccadgaa	aagaagattt	attestates	60
tcagtgtagt aggaccttc					120
aagagagaaa ccatatgaa					
					240
tgagacatca tagaattca cttttaggag cagctcaga	- cttattaaac	accatcatct	tostactors	rgrggggaat	300
atroatrotar traatrotar	r agadtotte	accategigt	coacactgga	yayaaacctc	360
atgaatgtag tgaatgtgg	, adageceeta	gccayaggtc	tanana	acacaccaga	420
aaatecacac tggagagaa	- coccaccage	geacegaatg	rgaaaaagcc	Etcaggegge	480
gttcactcct tattcaacg	. toggayaatic	atagiggiga	yaaaccctat	gaatgtaagg	
aatgtgggaa actcttcat	g cyguadaday	tanaca	acatcagaga	ctgcatgctg	600
gagagaaact tgaagaatg	u yayaadacct	ccaycaagga	cganggagct	raggggagag	
cagaaaattc accanggaa				tanggettte	720
caagggcagc tcangacct	arcyggccat	caggtaactc	aacac		765

<210> 226

```
<211> 791
       <212> DNA
       <213> Homo Sapiens
       <400> 226
 tggatccaaa gcacccctgg cactgttgtt tatggcccac ctcctgctgg-ggcccccatg
                                                                         60
 gtgtatgggc ctccacccc caacttctcc atcccttca tccctatggg tgtgctgcat
                                                                        120
 tgcaacgtcc ctgaacacca taacttagag aatgaagttt ctagattaga agacataatg
                                                                        180
 cagcatttaa aatcaaagaa gcgggaagaa aggtggatga gagcatccaa gcggcagtcg
                                                                        240
 gagaaagaaa tggaagaact gcatcataat attgatgatc ttttgcaaga gaagaaaagc
                                                                        300
 ttagagtgtg aagtagaaga attacataga actgtccaga aacgtcaaca gcaaaaggac
                                                                        360
 ttcattgatg gaaatgtaga gagtcttatg actgaactag aaatagaaaa atcactcaaa
                                                                        420
 catcatgaag atattgtaga tgaaattgag tgcattgaga agactcttct-gaaacgtegc-
                                                                        4-8-0-
 tcanagetca gggaagetga eegaeteetg geagaggetg agagtgaaet tteatgeaet
                                                                        540
 aaagaaaaga caaaaaatgc tgttgaaaag ttcactgatg ccaagagaag tttattgcaa
                                                                        600
 actgagtcag atgctgaggg aattagaaag gagagctcan gaaactgctg ttaanctcgt
                                                                        660
 caaanctgat cagcagctaa gatcgctcca agctgatgca aaaggatttg gancancaca
                                                                        720
 angatcaagc aagaagaaat cttgaaaaga aattaacnaa aatttntnca gcaaaagact
                                                                        780
 cagacttcaa a
                                                                        791
       <210> 227
       <211> 687
       <212> DNA
       <213> Homo Sapiens
       <400> 227
 gattgttatc ttttattttc atatgaaaaa tagattttaa gcaaaattca aaaataactc
                                                                         60
gacactataa aaanagaggg ccttaagtac attettttg ttaataagat ttaccagttt
                                                                        120
gtaggttcaa atatgcagtt aaaatcactg:.ttttttttta.aacatgttac gaagattaaa .
                                                                        180
aaaaaaaagg ctcagccaca tgttggttta aattcccata tgcaactatt cccatatgta
                                                                        240
ctatgtadaa gtgatttata aaaacattgg cattaatggt acaggcaaag taaactacag
                                                                        300
tggagtttca naatctcagt tcactgcatc ttgattaaaa aaaccatgtg acattccaat
                                                                        360
 tatgaagtca gtgaggtagt ggaggtgttt teettgaata tatttacaca agacagtatt
                                                                        420
 cctcatctgg ctgaggcatt cttttccgga ttttgtccaa gttganagtc ctctgtgagg
                                                                        480
gaagactcca agctgagaca gactgggtga tgacgctgaa tctgcaaagg tgcctggtga
ccaattcccc ctaanagcat cctacttgtc tccncaaact gtgntaaagt gccctctgtc
                                                                        540
ctgccgcttt cctttaatna aaacttctgg cttngcttgg ggcanacagt gtcgganttg
                                                                        600
                                                                        660
 gggccttgag tenggettee eggggaa
                                                                        687
       <210> 228
       <211> 810
       <212> DNA
       <213> Homo Sapiens
       <400> 228
gtctgggcag cgccaggcga tggccctgct gctggtgctc ctcgcctctt ggggcctggg
                                                                         60
gcagtgaggg ggccggggg cgtgggccga gtggccgcgg gcgccatgga gggggtgctg
                                                                        120
tacaantgga ccaactatet gageggttgg cageetegat ggtteettet etgtggggga
                                                                        180
atattgtcct attatgattc tcctgaagat gcctggaaag gttgcaaagg gagcatacaa
                                                                        240
atggcagtct gtgaaattca agttcattct gtagataata cacgcatgga cctgataatc
                                                                        300
cctggggaac agtatttcta cctgaaggcc agaagtgtgg ctgaaagaca gcggtggctg
                                                                        360
gtggccctgg gatcagccaa ggcttgcctg actgacagta ggacccagaa ggagaaagag
                                                                        420
tttgctgaaa acactgaaaa cttgaaaacc aaaatgtcan aactaagact ctactgtgac
                                                                        480
ctccttgttc ancaagtaga ttaaaacata agaagtgacc acaactggtg tgtccaattc
                                                                        540
```

マタレ フフバレサムレン

tgaggtaaag gagtetteea etetggttgt ttegtangag ggaattgatg tgggaaettt 600 gctgaaatca anctgntata ctttttctga aagaccttgg taagaattca tgcanatngc 660 aaattgcagc cttnaanctc ctgaagcctn cttctaaccg gcactccaac canggaatna 720 anctnaaget gggccaatgg ctccaaagtt ccaacnaaag gttaaaanat cccagctcaa 780 810 atttgggcng caaacaaagg gcaatccaac <210> 229 <211> 552 <212> DNA <213> Homo Sapiens <400> 229 gtaaatttgt ttgagttcat tgtagattct ggatattagc ccttttgtca gatgagtaga 60 ttgcaaaaat tttctcccat tctgtaggtt gcctgttcac tctgatggta gtttcccttg 120 ctgtgcggaa gctctttagt ttaattagat cccatttgtc aatttcggct tttgttgcca 1-8-0--ttgctttcgg tgttttagac atgaagtcct tgcccatgcc tatgtcctga atggttttcc 240 taggttttct tctagggttt ttatggtttt aggtctaaca tttaagtctc gaatccatct 300 tgaattaatt tttgtataag gtgtaaggaa gggatccact ttcagctttc tacgtatggc 360 tagccagttt teccancace atttattaaa tagggaatee ttteeceant teetgttttt 420 gtcangtttg tcaaagatca natggctgta natatgcanc attatttccg agggctctgt 480 tengttecat tggtetacat tteegttttg gtteengtae catgetgttt tttgttaeng 540 552 gtanaccttg gt <210> 230 <211> 842 <212> DNA <213> Homo Sapiens April 12 miles San Strain Residence ctcatcagtt agaagaaaaa gaaaatcaaa ttaagagcat gaaggctgat attgaaagtc 6.0 m. 194544500 515 ttgtaacaga aaaagaagcc ttacagaagg aaggaggcaa tcagcaacag gctgcttctg 12000000 10000000000 aaaaggagte ttgtataaca cagttgaaga aagagttate tgaaaacate aatgetgtea 1800 100 00 900 000 cattgatgaa agaagagett aaagaaaaaa aagttgagat tagcagtett agtaaacaac 240年 長 (2008年758年 taactgattt gaatgttcag cttcaaaata gcatcagcct atccgaaaaa gaagcagcca 300 tttcatcact aagaaagcag tatgatgaag aaaaatgtga attgctggat caggtgcaag 360 atttatcttt taaagttgac actctgagta aagagaaaat ttctgctctt gagcaggtag 420 atgactggtc caataaattc tcagaatgga agaagaaagc acagtcaaga tttacacagc 480 atcaaaacac tgttaaagaa ttgcagatcc agcttgagtt aaaatcaaag gaagcttatg 540 600 aaaaqqatqa qcagataaat ttattgaagg aagagcttga tcagcaaaat aaaagatttg attgtttaaa gggtgaaatg gaagacgaca agagcaagat gggagaaaaa ggagtctaat 660 ttagaaacag agttaaagtc tcaaacagca agaattatgg gattagagga ccatattanc 720 caagaaaact atttggaaat tagagteett aaatngaaag tteettaaaa aattacaate 780 aacaaaaagg atattggacc acaaagnaat tgggtcaaaa aaccttcaac aantttcaag 840 842 ga <210> 231 <211> 781 <212> DNA <213> Homo Sapiens <400> 231 atataqtaaa taaactttat ttatctgttt ctcagagatg acactgccaa caatcacaga 60

ま シネノ シロノロノスマリノ

120

180

240

tttgcataca atacagttat gtattggcta ttcacaattt acagtagtgt tttttcctct

gaaaaatata agtacaaaag ctaagtaaac aatgaggtac tgccatttgg gattttttac

atgtettage ttaaagaact ggtetttage aaatatteaa cagateaace tgaataaaat

```
agtcaattaa atgctctaat ttatcagaaa aaatccacta agtttcacct caaaatgtat
                                                                                                                                         300
                   tgcacaagtc tttttaaaaa atcaccctaa aaataaatag gaaaggtaag ccgttcttta
                                                                                                                                         360
                   aaaagaatgg atgaaaggaa tattatgtaa gcccataaag caggttaagt tatcaaaata
                                                                                                                                         420
                   tettttaaac aacataaaac tetteecaag agaaaactga agaaaaaact atcaccattt
                                                                                                                                         480
                   ctccactgat aaaatctatt ttaaaggcag tctgcaactt atctgtgggc cagatttttc
                                                                                                                                         540
                   ttgggtcttt tggctacatg aggggccctg aatgacaact tcattctcaa agagtagcaa
                                                                                                                                         600
                   agtgtggaca agttttccaa gcagcangtc acccaatgtc actcttcctc aagatgaagg
                                                                                                                                         6.60
                   ateggageca tgacacatgt ttaactaage acagacegga tgggtttace cagaagatae
                                                                                                                                         720
                   cactggcaan ggtgaagtaa acatcaggcc gaggcaacct tccccntttc aaaaantttt
                                                                                                                                         780
                                                                                                                                         781
                             <210> 232
                             <211> 767
                             <212> DNA
                             <213> Homo Sapiens
                             <400> 232
                   gttatatagt aaataaactt tatttatctg tttctcagag atgacactgc caacaatcac
                                                                                                                                           60
                   agatttgcat acaatacagt tatgtattgg ctattcacaa tttacagtag tgtttttcc
                                                                                                                                         120
                   tetgaaaaat ataagtacaa aagetaagta aacaatgagg taetgeeatt tgggattttt
                                                                                                                                         180
                   tacatgtctt agcttaaaga actggtcttt agcaaatatt caacagatca acctgaataa
                                                                                                                                         240
                   aatagtcaat taaatgctct aatttatcag aaaaaatcca ctaagtttca_cctcaaaatg-
                                                                                                                                         -3-0-0-----
                   tattgcacaa gtctttttaa aaaatcaccc taaaaataaa taggaaaggt aagccgttct
                                                                                                                                         360
                   ttaaaaagaa tggatgaaag gaatattatg taagcccata aagcaggtta agttatcaaa
                                                                                                                                         420
                   atatctttta aacaacataa aactcttccc aagagaaaac tgaagaaaaa actatcacca
                                                                                                                                         480
                   tttctccact gataaaatct attttanagg cagtctgcaa cttatctgtg ggccagattt
                                                                                                                                         540
                   ttcttggtct tttggctaca tgaggggccc tgaatgaaaa cttcattctc aaaggagtag
                                                                                                                                         600
               caagtgtggg acagttttcc aagcagcagt cacccaatgt cactcttctt caagatgaaa 660
      gateggagne atgacacatg ttaacctaag nacangactg gagggtttac neangaagat 7720
  n exemple and action of the second se
  The grant of all a production of the control of
20 F (APP - AD SPAT) E CONTROL < 210 > 233 (1407) (140
                                                                                                          TO THE REPORT OF THE PARTY OF
a ila a tangang na malay a×211> 879 a inggilan a
                                                                                                           化光光系统磁性电影电影 网络海洋黄金 化
         <212> DNA
         <213> Homo Sapiens
                             <400> 233
                   gggagtttaa tacacagctg gcacaaaagg aacaagagct ggaaatgacc ataaaagaaa
                                                                                                                                           60
                   ctatcaataa ggcccaggag gtggaggctg aacttttaga aagccatcaa gaagagacaa
                                                                                                                                         120
                   atcagttact taaaaaaatt gctgagaaag atgatgatct aaaacgaaca gccaaaagat
                                                                                                                                         180
                   atgaagaaat ccttgatgct cgtgaagaag aaatgactgc aaaagtaagg gacctgcaga
                                                                                                                                         240
                   ctcaacttga ggagctgcag aagaaatacc agcaaaagct agagcaggag gagaaccctg
                                                                                                                                         300
                   gcaatgataa tgtaacaatt atggagctac agacacagct agcacagaag acgactttaa
                                                                                                                                         360
                   tcagtgattc gaaattgaaa gagcaagagt tcagagaaca gattcacaat ttagaagacc
                                                                                                                                         420
                   gtttgaagaa atatgaaaag aatgtatatg caacaactgt ggggacacct tacaaaggtg
                                                                                                                                         480
                   gcaatttgta ccatacggat gtctcactct ttggagaacc taccgaattt gagtatttgc
                                                                                                                                         540
                   gaaaagtgct ttttgagtat atgatgggtc gtgagactaa gaccatggca aaagttataa
                                                                                                                                         600
                   ccaccgtact gaagttccct gatgatcaga ctcagaaaat tttgggaaaa gagaagatct
                                                                                                                                         660
                   eggetgatgt ttacttcacc tegcagtggt atcetengag taaaccatca gtegtgeeta
                                                                                                                                         720
                   agtttacatg tgtcatgggt ccgattcttc atcctttgaa gaaagagtgg acattggggt
                                                                                                                                         780
                   naccggetge ettgggaaaa etgteeanae nttgenaaen eettggggaa atggaagntt
                                                                                                                                         840
                   ttccanttca agggcccct caangnttgc ccaaacagg
                                                                                                                                         879
                             <210> 234
```

<210> 234

<211> 780

<212> DNA <213> Homo Sapiens

<400> 234 aaactttatt tatctgtttc tcagagatga cactgccaac aatcacagat ttgcatacaa 60 tacagttatg tattggnnng gcacaattta cagtagtgtt ttttcctctg aaaaatataa 120 gtacaaaagc taagtaaaca atgaggtact gccatttggg attttttaca tgtcttagct 180 taaagaactg gtctttagca aatattcaac agatcaacct gaataaaata gtcaattaaa -24-0 tgctctaatt tatcagaaaa aatccactaa gtttcacctc aaaatgtatt gcacaagtct 300 ttttaaaaaa tcaccctaaa aataaatagg aaaggtaagc cgttctttaa aaagaatgga 360 tgaaaggaat attatgtaag cccataaagc aggttaagtt atcaaaatat cttttaaaca 420 acataaaact cttcccaaga gaaaactgaa gaaaaaacta tcaccatttc tccactgata 480 aaatctattt taaaggcagt ctgcaactta tctgtgggcc agatttttct tggtcttttg 540 gctacatgag gggccctgaa tgaaaacttc attctcaaag agtagcaagt gtggacaagt 600 tttccaagca gcagtcancc aatgtcactc ttcttcaaga tgaaagatcg gagccatgac 6-6-0--acatgttaac taagcacaga cntgatggtt tactncagaa gattaccact gcnaaggtga 720 aagttaaaca tcaagncgag catnentete tttecaaaaa tttteeggng teeggattea 780

<210> 235

<211> 780

<212> DNA

<213> Homo Sapiens

<400> 235 attctgaggg tatattaagt cagagtcagg ataaatcact tcggagaata gcagaattaa 60 gagaggaget ccaaatggac cagcaggcaa agaaacatet gcaagaggag tttgatgcat 120 ctttagagga gaaagatcag tatatcagtg ttctccaaac tcaggtttct ctactgaaac 180 aacgattacg aaatggcccg atgaatgttg atgtactgaa accacttcct cagctggaac 240 - . . cacaggetgasagtetteact aaagaagaga atecagaaag tgatggagag eeagtagtgg -ಜ300 ಗಳಳು ಕನ್ನಲಗರು aagatggaac ttctgtaaaa acactggaaa cactccagca aagagtgaag cgtcaagaga 14.360 A 8.7 1 DOTTERS acctacttaa gcgttgtaag gaaacaattc agtcacataa ggaacaatgt acactattaa Jt.420 feet (goales) ctagtgaaaa agaagctctg caagaacaac tggatgaaag acttcaagaa ctagaaaaga - 480 managnagn, taaaggacct tcatatggcc gagaagacta aacttatcac tcagttgcgt gatgcaaaga 4540 coastoacat acttaattga acagettgaa caaggataag ggaatggtaa tegeagagae aaaaegteag 600 atgcatgaaa ccctggaaat gaaagaagaa gaaattgctc aactccgtag tcgcatcaaa 660 · cagatgacta cccaagggag aggaattacg ggaacaagan agaaaagtcc gaaagaactg 720 cntttgaggg aacttgaaaa agccttgagt acagnccaaa aanacagngg aagccaccgg 780

<210> 236

<211> 711

<212> DNA

<213> Homo Sapiens

<400> 236 cttggttttt aaatttggtt tcatatteet cattcaaaat atgaatactg teeteettgg 60 ctgacaattt ctgtgtgagt atctcaattt ctttcttctg tccttctctc atttgtaaaa 120 teatatttte ettttecace aagatttget ttgtetgtte etgttetttg ttaccatett 180 caagtttgga ctcatagact tgggttaaag attttacttt ttgctccatt tcactatttt 240 gtttttcaag ttgctgcatt aagtcctgca cctggatttt gtgagcatct aactcagtac 300 aaacatettt ettttgtget teaactteag eaacetgttt ggtaagaaga attetttetg 360 tttccaaatc caacaacttc tgctgcaatt gggccaactg ttcctcatat gcttttgtct 420 geteatgtgt ggeactetgg taagaetgaa aaacgtecag ettageagat geetgetgga 480 gttccccttc agacctttta atatctgcct ccaaattttc tacatgagcc tgatgctctt 540 tcaaatgctt gtccctttcc ttcaagagaa gctcaagttg nttaanttga tcttttaaag 600 cetteteaan teeteeggga tanaaaaent egtgttettt naatgagaae ggteaaentg 660

```
ccggctgggt gataantttt ccgttcancc ancettgggg ctccaaattc c
                                                                                                                                              711
                              <210> 237
                              <211> 658
                              <212> DNA
                              <213> Homo Sapiens
                              <400> 237
                    atagtaaata aactttattt atctgtttct cagagatgac actgccaaca atcacagatt
                                                                                                                                               60
                    tgcatacaat acagttatgt attggctatt cacaatttac agtagtgttt tttcctctga
                                                                                                                                              120
                    aaaatataag tacaaaagct aagtaaacaa tgaggtactg ccatttggga ttttttacat
                                                                                                                                              180
                   gtcttagctt aaagaactgg tctttagcaa atattcaaca gatcaacctg aataaaatag
                                                                                                                                              240
                    tcaattaaat gctctaattt atcagaaaaa atccactaag tttcacctca aaatgtattg
                                                                                                                                              300
                    cacaagtett tttaaaaaaat caccetaaan ataaatagga aaggtaagee gttetttaaa
                                                                                                                                              360
                   aagaatggat gaaaggaata ttatgtaagc ccataagagc aggttaagtt atcaaaatat
                                                                                                                                              420
                    cttttaaaca ncataaaact cttcccanga gaaaactgaa gaaaaacta tcaccatttc
                                                                                                                                              480
                    tccactgata aaatctattt taaaggcagt ctgcanctta tctgtgggcc aagatttttc
                                                                                                                                              540
                    ttggnctttt ggctacatga gggggccctg gaatgaaaaa cttcattccc aanggagttn
                                                                                                                                              600
                   genaggtgtg ggacaggttt tecaaggcaa geaagtnage caaatngtea getettee
                                                                                                                                              658
                              <210> 238
                              <211> 678
                              <212> DNA
                              <213> Homo Sapiens
                              <400> 238
                   gttatatagt aaataaactt tatttatctg tttctcagag atgacactgc caacaatcac
      agatttgcat acaatacagt tatgtattgg ctattcacaa tttacagtag tgttttttcc 120
     waysar Artetgaaaaat ataagtacaa aagetaagta aacaatgagg tactgecatt tgggatttttt massel800
ju sau saukustacatgtotti agottaaagasactggtottti agoaaatatti caacagatoa ,acotgaataa<u>aaaaaaa 24048</u>011 sa
1. Programma a tagtoa at taa a tgotot a a ttatoag a a a a a a too a cta a gtttoa cotoa a a a tgototoa a gotos o
and the second and the second 
4000 E NEW Marktaaaaagaa tggatgaaag gaatattatg taagcccata aagcaggtta agttatcaaa minke 420g :
                   atatetttta aacaacataa gaactettee caaggagaaa aetgaannaa aaaactatea . 480:
          🗆 🖟 ncatttenne actgataaaa tetantttaa agggnagten geaacttane tgtgggeeag 💉 ...25400
                    atttttccgt ggggcttttg ggctacantn agggggccct gaatgaaaaa nttcaattcc
                    ncaaatgnng tagcaaattg tgggncangt ttttccaaag cagncaantt cancccnana
                                                                                                                                              660
                    tgtcactcct tccttcaa
                                                                                                                                              678
                              <210> 239
                              <211> 1402
                              <212> DNA
                               <213> Homo Sapiens
                              <400> 239
                    gggagtttaa tacacagctg gcacaaaagg aacaagagct ggaaatgacc ataaaagaaa
                                                                                                                                                60
                    ctatcaataa ggcccaggag gtggaggctg aacttttaga aagccatcaa gaagagacaa
                                                                                                                                              120
                    atcagttact taaaaaaatt gctgagaaag atgatgatct aaaacgaaca gccaaaagat
                                                                                                                                              180
                    atgaagaaat ccttgatgct cgtgaagaag aaatgactgc aaaagtaagg gacctgcaga
                                                                                                                                              240
                    ctcaacttga ggagctgcag aagaaatacc agcaaaagct agagcaggag gagaaccctg
                                                                                                                                              300
                    gcaatgataa tgtaacaatt atggagctac agacacagct agcacagaag acgactttaa
                                                                                                                                              360
                    tcagtgattc gaaattgaaa gagcaagagt tcagagaaca gattcacaat ttagaagacc
                                                                                                                                              420
                    gtttgaagaa atatgaaaag aatgtatatg caacaactgt ggggacacct tacaaaggtg
                                                                                                                                              480
                    gcaatttgta ccatacggat gtctcactct ttggagaacc taccgaattt gagtatttgc
                                                                                                                                              540
                    gaaaagtgct ttttgagtat atgatgggtc gtgagactaa gaccatggca aaagttataa
                                                                                                                                              600
```

** W 77/U94UJ A ~ A1 ~ C D / C / A ~ C 1 /

```
ccaccgtact gaagttccct gatgatcaga ctcagaaaat tttggaaaga gaagatgctc
                                                                      660
ggetgatgtt tacttcacct cgcagtggta tcttctgagt aaaccatcag tctgtgctta
                                                                      720
gttaacatgt gtcatggctc cgatcttcat cttgaagaag agtgacattg ggtgactgct
                                                                      780
gcttggaaaa ctgtccacac ttgctactct ttgagaatga agttttcatt cagggcccct
                                                                      840
catgtagcca aaagaccaag aaaaatctgg cccacagata agttgcagac tgcctttaaa
                                                                      900
atagatttta tcagtggaga aatggtgata gttttttctt cagttttctc ttgggaagag
                                                                      960
ttttatgttg tttaaaagat attttgataa cttaacctgc tttatgggct tacataatat
                                                                      1020
teettteate cattetttt aaagaacgge ttacetttee tatttatttt tagggtgatt
                                                                     1080
ttttaaaaag acttgtgcaa tacattttga ggtgaaactt agtggatttt ttctgataaa
                                                                      1140
ttagagcatt taattgacta ttttattcag gttgatctgt tgaatatttg ctaaagacca
                                                                     1200
gttctttaag ctaagacatg taaaaaatcc caaatggcag tacctcattg tttacttagc
                                                                      1260
ttttgtactt atattttca gaggaaaaaa cactactgta aattgtgaat agccaataca
                                                                      1320
taactgtatt gtatgcaaat ctgtgattgt tggcagtgtc atctctgaga aacagataaa
                                                                      1380
taaagtttat ttactatata ac
                                                                      1402
```

<210> 240

<211> 760

<212> DNA

<213> Homo Sapiens

<400> 240

gtgcagtttc tcttatattc ctcacatatg tgctttcatt catctttcgc aagtgqaqaa aaaataatgg cttttggtet tttggetttt ttattattett-aatatgtgta tccacaatta tggtatcaac tcaatatgaa aaactcaact taattttgtg catgattttc ataccttcct tcactttgct ggggtatgtc atgttattga tccagctcga ctttatgaga aacttggaca gtctggacaa tagaataaat gaagtcaata aaaccattct tttaacaacc ttaataccat accttcagag tgttattttc ctttttgtca taaggtgtct ggaaatgaag tatggaaatg aaataatgaa taaagaccca gttttcagaa tctctccacg gagtagagaa actcatccca atccggaaga gcccgaagaa gaagatgaag atgttcaagc tgaaagagtc caagcagcaa atgcacteae tgctccaaac ttggaggagg aaccagteat aactgcaage tgtttacaca 🚈 - 540 mag ar aggaatatta tgagacaaag aaaagttgct tttcaacaag aaagaagaaa atagccatca gaaatgtttc cntttgtgtt aaaaaaggtg aaagttttgg ggattaccta ggacacaatg ggagetggta aaagtactte cattaaaatg ataacntggg tgcacaaage caaactgcan ggagtggtgg gtgttacaaa ggnagcagan gcatcnggta

60

180

240

300

360

420 "

48033

760

.600 544 6

660437777

720 15 4 4 4

120 - -

<210> 241

 $L_{\mathcal{F}}\mathcal{F} = \{ A_{ij}(1) \mid i \leq$

<211> 745

<212> DNA

<213> Homo Sapiens

<400> 241

aaaagtccan caaagtttta tttctaagaa ataaacttgc atataacccg aacgtaacaa 60 enenggtatt acatcaatac agctataaca ttaatgcage aattatataa cacaaaagtg 120 ctataatgac atgggaaatg ttcatgaact gtgaggtgaa aagatacaga aaatgactat 180 gcctacngat actacctttg aaaaaggatc cataaaaaat acattgaata taagttggct 240 aaagaaaata ttaactgcgg tactttctta cagattangg ctancttctt ccatataact 300 tcaatatgta ctaaaattca catgcattta ttttataatc agaatgtcat tataattaaa 360 tgttangetg tgccatttca tcagtttatc anacettett atagtcaatg tcacattaaa 420 ttagaatccg agtaaataan gtttaaaaat anctgataca tttgaagttc aggctaaaaa 480 cctcatattt ttatttgtaa aatgttctca ntgttagctt tattgataat aaccgataac 540 caacctaata ttgtangatt tttaaattat ttttaagcac aaantagacc catgttgggg 600 atgaataaca tgtcngattt tgtnaatttt ggtcnacnac ttttcccaaa aatttccttg 660 tttccttcan ccnaaatttt taaaantgaa aactgtatca attatggaan ggtttattaa 720 aangtttncc tttggtaacc ngaag 745

```
TT U ファバリマルリン
          <210> 242
          <211> 818
          <212> DNA
          <213> Homo Sapiens
          <400> 242
    geaacgeegg ggegeeegag gtetggaagg cgcagaaatg gagcaagage cacaaaatgg
    agaacctgct gaaattaaga tcatcagaga agcatataag aaggcctttt tatttgttaa
                                                                           120
    caaaggtetg aatacagatg aattaggtea gaaggaagaa geaaagaact actataagea
                                                                           180
    aggaatagga cacctgctca gagggatcag catttcatca aaagagtctg aacacacagg
                                                                           240
    tectgggtgg gaatetgeta gacagatgea acagaaatg aaagaaacte tacagaatgt
                                                                           300
    acgcaccagg ctggaaattc tagagaaggg tcttgccact tctctgcaga atgatcttca
                                                                           360
    ggaggtgccc aagttatatc cagaatttcc acctaaagac atgtgtgaaa aattaccaga
                                                                           420
    geeteagtet tttagtteag eteeteagea tgetgaagta aatggaaaca eeteaactee
                                                                           480
    aagtgcaggg gcagttgctg cacctgcttc tctgtcttta ccatcacaaa gttgtccagc
                                                                           540
    agaageteet eetgettata eteeteaage tgetgaaggt cactacactg tateetatgg
                                                                           600
    aacagattct ggggagtttt catcagttgg agaggagttt tatagggaat cattctcagc
                                                                           660
    caacggcctc ttnagaacct taagggctgg gattcangat gaaattgatt ttgataccaa
                                                                           720
    atgggagtac annttttttt tgtaaatcct gcaangggga ngttatgcan cttcgtancc
                                                                           780
    ccggggtacc ttcnaattgt gaagggtttt gggntaaa
                                                                           818
          <210> 243
          <211> 799
          <212> DNA
          <213> Homo Sapiens
          <400> 243
    aatttettga agtaettttt taateeaatt aagetgataa taateaette gaattttaat
                                                                            60
acaatacaat catgiteeca aattiteenagageteataaca atacagtete aatacaaaag
· Asgaegtaataat etattttat teattttaaagteaaagaaaegeatteeattt; eetaacaaac sama 180
  aggtaagtta caaaagtagt ccattttact tttcatcagt ctttcctgt tttgaacaag vall 240
a mattettttgag aattettagt tttagttttt:gtttagetta;cacactgaaa attttgagaa mata 300
egeatotaaaa aaatooacaa ttagtgcaaamaagaggggagaaataotttaa gtcattoottoo 200360
   ctataaaaag aattaaggtt actaaatgcc aatttttaag caaatatata gtttcctatt
                                                                           420
   tgccttctga aagacagcag atataaaaat agttcaatat taggtttaac aaggtttgaa
                                                                           480
    caacacatgt actatcagct ttattttacc tgcaaaaata ttttagctac acttggaaaa
                                                                           540
    aaaataaact tgagaatata acttcacatt tctaaggcca gatgcaagaa tacttaatct
                                                                           600
    tttcctttta aatagaagac atgccataaa atttatgaaa agttaatttg taggaatggn
                                                                           660
    atacatttaa aaaatacngg ttaaaccngg tgagggaatt ccacatttgg cctatttaac
                                                                           720
    aaaaatttta aaccaatttt caaaaggggc tttggggtaa aaagtngatt cccaagcaac
                                                                           780
    ntcaancant ttaaccttc
                                                                           799
          <210> .244
          <211> 726
          <212> DNA
          <213> Homo Sapiens
```

<400> 244

gtgagttgag	cactactact	ccgcggtgga	atcaccacac	cactagggg	21221	
+ a+ a a+ + a = a	-33		Sucaccycac	cgcccccggg	accatggtgt	60
tetaetteae	cagcagcagc.	gttaattcat	ctgcctacac	tatttacatg	ggaaaagata	120
aatatgaaaa	tgaagatctg	atcaagcatg	actaacetaa	agatatotog	tttastat	
			geeggeeega	agacacccgg	cccatgtgg	180
acaaactctc	ttcggctcat	gtataccttc	gattacataa	gggagagaat	atagaagaca	240
teccaaagga	agtgctgatg	gactgtgccc	accttoton	~~~~		
	~30300ga03	9466969666	accettgtgaa	ggccaatage	attcaaggct	300
gcaagatgaa	caacgttaat	gtggtatata	cgccataatc	taacctgaag	aaaacacctc	360
agatagatat	~~~~~~		- 5 55		uaaacagceg	360
acatggatgt	ggggcagata	ggctttcaca	ggcagaagga	tgtaaaaatt	gtgacagtgg	420

マア ℧ シテメ℧⅋ⅆ℧

```
agaagaaagt aaatgagatc ctgaaccgat tagaaaagac caaagtcgag cggttcccag
                                                                      480
acctancage agagaaagaa tgeagagate gtgaagagag gaatgagaaa aaageecaaa
                                                                      540
ttcaggaaat gaaaaagaga gaaanagaag aaatgaagaa gaanagggaa atggatgaac
                                                                      600
ttangageta tteateacta atgaaagttt gaaaatatgt etteanatea ggatggeaat
                                                                      660
ggattcagat gaattcatgt taaaaggaga aaaggngaaa aaggaccttt gaaaaatttg
                                                                      720
aatgtt
                                                                      726
      <210> 245
      <211> 592
      <212> DNA
      <213> Homo Sapiens
      <400> 245
ccagattaaa aaaatggtat tttattataa cttttaaaat tgcggaacat cagactgaat
                                                                       60
atcatcagac acatacacaa aaccactcat ctctaaagtc attttctata ccctctcaaa
                                                                       120
atttggccag tgagttttgc ctcagggaat tttccagttc aaccccatac accaacatgg
                                                                       180
aataaatgga aacactagcc ttttggtttt gcccanagtt ccaaagtgct attacaggtg
                                                                       240
gaatatetge tgeaggaagt cattettget getgtgggtg tgagtaaaat gettagttee
                                                                       300
ttctaaaatc ataattgcaa tatggacttc tgcttcacgc tgcatcctaa ggcacaaatc
                                                                       360
aggtaaccta catctcccaa atgatcaaca ggagcactcc atcctatttt accctcaatg
                                                                       420
cnganaaatt acncctgggc ccanaagttg tcacataggt ggcttgggtt acttggggct
                                                                       480
caggcaacaa ctgccacagg ccccagcttg atgaanacca tcnatttctt taaaatatgt
                                                                       540
tggnnactaa gatggaggcc tccggcncan agggaancan nggacataaa ac
                                                                       592
      <210> 246
      <211> 821
      <212> DNA
      <213> Homo Sapiens
               Company of the control of
      <400>92460950999644440846.000
aggatgaaga gctggagagccgcggggacg acgagcgcag ctgtcggggc cgcgagtcgg
                                                                        60
acgaagacac tgaggatget; agtgaaactg; acctggcaaa; gcatgatgaa gaagactatg
                                                                       120
tagaaatgaa ggaacagatg@tatcaggaca.aactggcttc@tctcaagagg cagttgcaac
                                                                       180
aactgcaaga aggtacatta caggaatatc agaagagaat gaaaaaacta gatcagcagt
                                                                       240
acaaagagag gatacggaat gcagaactct tcctccagct ggaaactgaa caagtggaac
                                                                       300
gaaattacat taaagaaaag aaggcagcag tgaaagaatt tgaagacaag aaggttgagc
                                                                       360
tgaaagagaa cctgattgct gagctagaag aaaagaagaa aatgattgaa aatgaaaagc
                                                                       420
tgacaatgga actgactgga gattctatgg aggtgaaacc tatcatgacc agaaagttgc
                                                                       480
ggaggcgacc aaatgatccc gtccccatcc cagacaagag gaggaaacct gctccagccc
                                                                       540
agctaaacta tttgttaaca ggatgaacag atcatggagg atctgagaac attaaataag
                                                                       600
cttaagtcac ccaagagacc agcateteca tecteteetg agcaettgee tgcaacacce
                                                                       660
gccggaatct ccaagcccca gaggttcnaa agccccggat anaagaatgg caaacctgtt
                                                                       720
actatgacaa aaagatggtt accacaagag ccaaggccat cctatcctgg angtcaaagg
                                                                       780
gacaaaccan gaaactgaag cctgcctnat taagtttccg t
                                                                       821
      <210> 247
      <211> 639
      <212> DNA
      <213> Homo Sapiens
```

44、金额线点

· [1] [14] [[滿潔]

ことに こうてある

<400> 247

gttacacaaa gcatttattt ctctgagaag gccgagagcc acgagaattc atcatctcct 60 gctaggacct ctgccccaag cttctgggca aatagtgaat tggacgcgac agggaaagta 120 gctacgtgat ccactaatca gattcaaaac atgaaaatgc actggagagt gtatcccttc 180 ctgctcttct ccatggtaga gagacttaaa gataatcaat aaaaatagct gtcccttcaa 240

<210> 250

<211> 899

<212> DNA

<213> Homo Sapiens

cagagcatct caatateece tgggacagnt acaatteagt gtt

```
<400> 250
attcaagtca agagatgtga gaccatgaga gagaagcaca tgcagaaaca gcaggagagg
                                                                        60
gaaaaatcag tettgacace tettegggga gatgtageet ettgcaatae ecaagtggca
                                                                       120
gagaaaccag tgctcactgc tgtgccagga atcacacggc acctgaccaa gcggcttccc
                                                                       180
acaaagtcat cccagaaggt ggaggtagaa acctcaggga ttggagactc attattgaat
                                                                       240
gtgaaatgtg cagcacagac cttggaaaaa aggggtaaag ctaaacccaa agtgaacgtg
                                                                       300
aagccatctg tggttaaagt tgtgtcatcc cccaaattgg ccccaaaacg taaggcagtg
                                                                       .360
gagatgeacg etgetgteat tgeegetgtg aagecactea geteeageag tgteetacag
                                                                       420
gaacccccag ccaaaaaggc agctgtggct gttgtcccgc ttgtctctga ggacaaatca
                                                                       480
gtcactgtgc ctgaagcaga aaatcctaga gacagtcttg tgctgcctcc aacccagtcc
                                                                       540
tetteagatt ceteacece ggaggtgtet ggecetteet cateceaaat gageatgaaa
                                                                       600
actogoogac toagototgo otoaacaagg aaagoococa otototgtgg aggatgattt
                                                                       660
tgagaaacta atatgggaga tttcaaggag gcaaaattgg naactganat tgacctggat
                                                                       720
tctgggaaaa gatgaagatg accettccgg cttngngcct atcaannaaa ngattqntan
                                                                       780
cctgaaaggg tggtaattga nggacncctt naaaaaaaaa atccnccaaa aaaactnggg
                                                                       840
cettaantte naccaaatgg taacaatttn acctgagaat gnttaattte etttaggee
                                                                       899
      <210> 251
      <211> 755
      <212> DNA
      <213> Homo Sapiens
      <400> 251
cctacatcag ttttatttaa aacactaaca agtatttctc tttctgtaag ggcaaatggt
                                                                        60
tcaaataatg cggaacacga aacattgana nagacaagtg ctttaaatat gaaacaaaat
                                                                       120
tattttttaa aaaagcaaaa gaataaagaa tatatacaaa agggacctgg aatctgtaag
                                                                       180
gtgattccaa aaacgaaata agtagaaaat ccatggtgaa acctgaacat tctacctctg
                                                                       240
ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tagaggtgtg
                                                                       300
totatacata aacttcagtc atttttgctt gtgcagaatc.atcccaatct tcccaagact
gaatgggcag teetgtgget ttetteettt teeatattee eaacaagget acgtgaagtt 344 420
caactettga tgageegett acaacageag tteettagga gecaacatga caggtgggte
agatttccct atgagaaaca aaactggcca cctacagcaa aatatcaaaaatgggtaagtc
cttccttcct cttcctcctg attatataca acatatctcc tttcaaagac*tattatttcc all 600
atcatgetta nteetteaca aatetaaace ttgaggtgat atgaaggaaa ccaacatean
                                                                       660
gaaaagaaaa ctcaattcag aaatgaagaa aacgggcang tatacaattc anccccagag 💥
                                                                       720
caacccaata atccctgggc aaaagttcaa ttcaa
                                                                       755
      <210> 252
      <211> 753
      <212> DNA
      <213> Homo Sapiens
      <400> 252
cctacatcag ttttatttaa aacactaaca agtatttctc tttctgtaag ggcaaatggt
                                                                        60
tcaaataatg cggaacacga aacattgact aatacaagtg ctttaaatat gaaacaaaat
                                                                       120
tattttttaa aaaagcaaaa gaataaagaa tatatacaaa agggacctgg aatctgtaag
                                                                       180
gtgattccaa aaacgaaata agtagaaaat ccatggtgaa acctgaacat tctacctctg
                                                                       240
ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tagaggtgtg
                                                                       300
totatacata aacttcagtc atttttgctt gtgcagaatc atcccaatct tcccaagact
                                                                       360
gaatgggcag teetgtgget ttetteettt teeatattee caacaagget acgtgaagtt
                                                                       420
caactettga tgageegett acaacageag tteettagga gecaacatga caggtgggte
                                                                       480
agatttccct atgagaaaca aaactggcca cctacagcaa aatatcaaaa tgggtaagtc
                                                                       540
cttccttcct cttcctcctg gattatatac aacatatctc ctttcaagac tattatttcc
                                                                       600
atcatgenta atcetteaca aatetaaaac ettgagggtg atatgaaagg aaaccaacat
                                                                       660
canagaaaag aaaactcaat tcaagaaaat taagaaaacc tggcaaggta tacaaataca
```

```
ccccaggag catcccaaat aatccctggg aaa
                                                                        753
       <210> 253
       <211> 793
       <212> DNA
       <213> Homo Sapiens
       <400> 253
gactttccta catcagtttt atttaaaaca ctaacaagta tttcnctttc ngtaagggca
                                                                        60
 aatggttcaa ataatgcgga acacgaaaca ttgactaata caagtgcttt aaatatgaaa
caaaattatt ttttaaaaaa gcaaaagaat aaagaatata tacaaaaggg acctggaatc
                                                                       120
 tgtaaggnga ttccaaaaac gaaataagta gaaaatccat ggtgaaacct gaanattcta
                                                                       180
                                                                       240
cctctgcttt gganaagggc tatcatacaa cattcagtca gctgaanatg gattggtaaa
ggtgtgtcta tacataaact tcagtcattt ttgcttgtgc anaatcatcc caatcttgcc
                                                                       300
aagactgaat gggcagtcct gtggctttct teetttteea natteecaac aaggetaegt
                                                                       3.6.0----
                                                                       420
gaagttcaac tettgatgag cegettacaa cagcagttee ttaggageca acatgacagg
tgggtcagat ttccctatga gaaacaaaac tggccaccta cagcaaaata tcaaaatggg
                                                                       480
taagteette etteetette eneetgatta tatacaanat ateteettte aagaetatta
                                                                       540
tttccatcat gcttattcct tcacanatct aaaccttgan gtgatatgaa nggnaaccaa
                                                                       600
catcangaaa agaaaactca attcagnaat gaangaaaac tgggaggtat ttaatanacc
                                                                       660
cccangnnga atccaaatac cctggnaana gttcaattca antgtacngc naaagnccat
                                                                       720
                                                                       780
aantaantat tgg
                                                                       <del>7-9-</del>3-
      <210> 254
      <211> 625
      <212> DNA
      <213> Homo Sapiens
                Charles of the Charles
      cctacatcag ttttatttaa aacactaaca agtatttctc tttctgtaag ggcaaatggt
tcaaataatg cggaacacga aacattgact aatacaagtg ctttaaatat gaaacaaaat
                                                                        60
tattttttaa aaaagcaaaakgaataaagaa tatatacaaakagggacctgg aatctgtaag
                                                                       120
                                                                             The Life North Se
gtgattccaa aaacgaaata agtagaaaat ccatggtgaa acctgaacat tctacctctg
                                                                       180
                                                                             。 12 · 写为数
ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tanaggtgtg
                                                                       240
                                                                             s in unargeren
totatacata aacttcagtc atttttgctt gtgcagaatc atcccaatct tcccaagact
                                                                       300
gaatgggcag teetgtgget ttetteettt teeatattee caacaagget acgtgaagtt
                                                                       360
caactettga tgageegett acaacancaa gtteettang ageeaacatg acaggtgggg
                                                                       420
                                                                       480
tcangatttc cctatgagaa acaanactgg ccacctacag caaaaatatn aaaatggggt
aagteettee tteetettee teetgaatta tatneaacat nteteetttt caagaenatt
                                                                       540
                                                                       600
anttccatca gggcttaatc cttca
                                                                       625
      <210> 255
      <211> 907
      <212> DNA
      <213> Homo Sapiens
      <400> 255
gccaacagca gcggagaaac gtttctcttt cctctcagtt tgcgcacacc atggcggccc
                                                                        60
ctgcccagca gactactcag cctggcggcg ggaagcgcaa aggcaaggct cagtatgtgc
tggccaagcg cgctcggcgc tgcgacgctg gcgggccccg tcagctagag cccgggctac
                                                                       120
agggcatcct catcacctgc aatatgaacg agcgcaagtg cgtggaggag gcctacagcc
                                                                       180
tecteaacga atacggegae gacatgtatg ggccagaaaa gtttacagae aaggatcage
                                                                       240
agccctctgg aagtgaggga gaggatgatg atgcggaggc tgccttgaag aaagaagttg
                                                                       300
gtgacattaa ggcatctaca gagatgaggt taagaagatt ccagtcagtg gaaagtggag
                                                                       360
caaataacgt tgtcttcatc aggacacttg ggatagagcc tgagaaattg gtgcatcata
                                                                       420
                                                                       480
```

, `z.

<210> 258

11 4 /// 07400

<211> 798

<212> DNA

77 A. 177 d.

<213> Homo Sapiens

```
<400> 258
aacatttttg cataaatggg tctttgatac aggtaaccag ttttgtaaca ttattcagaa
                                                                        60
cttcactgta tcttcaagtt tttgatatca gnagcactgt ggagaaagca gtgtgctata
                                                                       120
atgtcaacat caggatttct tttttttt ttaataacgc aaaatgactt atggagacaa
                                                                       180
ccactgatgg ggcaccagga gtgtagatac cagacctctg gttatcagat atgatgtcac
                                                                       240
aacattatat attggccttt gttctggcag gctcctagca atagaaaaag ttttctttga
                                                                       300
atttcatcat ttacaaatct tacaaatgct acagcatgac aaatattagt gaaacctgtt
                                                                       360
gactcatcat cctggataga gaagctgcta cttttcagtt aatgacacaa aaccttttt
                                                                       420
gcatcatatg acatatcatc aagtaaatca acttattgag aataaagtct cttcaacttt
                                                                       480
gtactgcatc ttgccccagc attttaatgt tattaagatt ctcaccaacc atgcatattt
                                                                       540
teettteetg agataagtte tgetaetaaa taatttgett ettaaacett ttgaetaaag
                                                                       600
gtgatttctg aacaaaagcc ttactgtttt tgataagtcc caaaaagcca tttgaaaaat
                                                                       6.6.0
aatgaatate etttentgte aagtggetgt gaatttaatg ttacaattge caagttttgt
                                                                       720
aagttgcatn gtcacangac aatgcacaat ggggacaagg agaaccttgg gcctgagtcc
                                                                       780
acaataanta ccccttga
                                                                       798
      <210> 259
      <211> 831
      <212> DNA
      <213> Homo Sapiens
      <400> 259
geeggeggta gaegaggaeg eeaaeageag eggagaaaeg tttetettte eteteagttt
                                                                        60
gegeacaeca tggeggeece tgeecageag actaeteage etggeggegg gaagegeaaa
                                                                       120
ggcaaggctc agtatgtgct ggccaagcgc gctcggcgct gcgacgctgg cgggcccgt
                                                                       180
cagctagage eegggetaca gggeateete ateaeetgea atatgaaega gegeaagtge
                                                                       240
gtggaggagg cctacagcct cctcaacgaa tacggcgacg acatgtatgg gccagaaaag
                                                                       300
tttacagaca aggatcagca gccctctgga agtgagggag aggatgatga tgcggaggct
                                                                       360
geettgaaga aagaagttgg tgacattaag geatetacag agatgaggtt aagaagatte
                                                                       420
cagtcagtgg aaagtggagosaaataacgttsgtcttcatcasggacacttgg gatanagcct
                                                                       480
gagaaattgg tgcatcatat tetecaggat atgtacaaaa ccaagaaaaa gaagactcga
                                                                       540
gttattttgc gaatgttacc catctcaggc acatgcaang cttttttaga agatatgaaa
                                                                       600
aaatatgcan aaacattttt ggaancetgg tttaaagete caaacaaagg gacatttcag
                                                                       660
attgtgttca aatctcgaaa ataacagtca tgttgaatag aagaagaagt tatcagagaa
                                                                       720
nttggcaagg aataatgntg caacctcaat tcagaaaata aaagtggatt tcaccaattc
                                                                       780
cacagincac aaniggiagi agaaatcatc aaaagcintc igitigcccg a
                                                                       831
      <210> 260
      <211> 772
      <212> DNA
      <213> Homo Sapiens
      <400> 260
aataacgcaa aatgacttat ggagacaacc actgatgggg caccaggagt gtagatacca
                                                                        60
gacctctggt tatcagatat gatgtcacaa cattatatat tggcctttgt tctggcaggc
                                                                       120
tcctagcaat agaaaaagtt ttctttgaat ttcatcattt acaaatctta caaatgctac
                                                                       180
agcatgacaa atattagtga aacctgttga ctcatcatcc tggatagaga agctgctact
                                                                       240
tttcagttaa tgacacaaaa ccttttttgc atcatatgac atatcatcag taaatcaact
                                                                       300
tattgagaat aaagtotott caactttgta otgoatottg occoagoatt ttaatgttat
                                                                       360
tagattetea ecaaceatge atatttteet tteetgagat aagttetget aetaaataat
                                                                       420
ttgcttctta aaccttttga ctaaaggtga tttctgaaca aaagccttac tgtttttgat
                                                                       480
agtccaaaag ccatttgaaa ataatgaata tcctttcttg tcaagtggcn gtgatttatt
                                                                       540
gttacaattg ctagttttgt nagttgcatg tcacagacaa tgcacaatgg gacangagag
                                                                       600
```

1. 400

```
cetgggactg agtecacata ataccentga gaagtannet ttetttatta agacagaant
                                                                                                                               660
tetttgtgte cettgttgca caagtntact gaagtntene aagaaggact ggangtente
                                                                                                                               720
ataancaacc ttttagaaat gtccgtattc ctaaggccca aaaangggtc cc
                                                                                                                               772
           <210> 261
           <211> 753
           <212> DNA
           <213> Homo Sapiens
           <400> 261
agacgaggac gccaacagca gcggagaaac gtttctcttt cctctcagtt tgcgcacacc
                                                                                                                                 60
                                                                                                                               120
atggcggccc ctgcccagca gactactcag cctggcggcg ggaagcgcaa aggcaaggct
cagtatgtgc tggccaagcg cgctcggcgc tgcgacgctg gcgggccccg tcagctagag
                                                                                                                               180
cccgggctac agggcatcct catcacctgc aatatgaacg agcgcaagtg cgtggaggag
                                                                                                                               240
gcctacagec tectcaacga atacggcgac gacatgtatg ggccagaaaa gtttacagac
                                                                                                                               3.0.0_
 aaggatcagc agccctctgg aagtgaggga gaggatgatg atgcggaggc tgccttgaag
                                                                                                                               360
 aaagaagttg gtgacattaa ggcatctaca gagatgaggt taagaagatt ccagtcagtg
                                                                                                                               420
 gaaagtggag caaataacgt tgtcttcatc aggacacttg ggatagagcc tgagaaattg
                                                                                                                               480
                                                                                                                               540
 gtgcatcata ttctccagga tatgtacaaa accaagaaaa agaagactcg agttattttg
 cgaatgttac ccatctcagg cacatgcaag gcttttttag aaagatatga anaaatatgc
                                                                                                                               600
 anaaaacatt tttggaaccc tgggtttaaa gctccaaaca aagggacatt tcagaattgt
                                                                                                                               660
 ggtacaaatc tcgaaatanc agtcatgtta antagagaan naagtttttc agaagaattt
                                                                                                                               720
 ggeaaggaat-nagtnntgca-accctcaatt_tca__
                                                                                                                               _7.5.3__ _
            <210> 262
            <211> 659
            <212> DNA
                                                    <213> Homo Sapiens
                                                  .eks.27 . ប្រាស្ត្រក្នុង មន្តិ
                                    and the state of t
            <400> 262
                                                                                                1 11 11
 aataacgcaa aatgacttat ggagacaacc actgatgggg caccaggagt gtagatacca
                                                                                                                                  60
  gacctctggt tatcagatat gatgtcacaa cattatatat tggcctttgt tctggcaggc
                                                                                                                                120
  tectageaat agaaaaagtt ttetttgaat tteateattt acaaatetta caaatgetae
                                                                                                                                180
  agcatgacaa atattagtga aacctgttga ctcatcatcc tggatagaga agctgctact
                                                                                                                                240
  tttcagttaa tgacacaaaa ccttttttgc atcatatgac atatcatcag taaatcaact
                                                                                                                                300
  tattgagaat aaagtetett caactttgta etgeatettg eeccageatt ttaatgttat
                                                                                                                                360
  tagattetea ceangecatg catattttee ttteetgaga taagttetge taetaaagaa
                                                                                                                                420
  tttgcttctt aaaccttttg actaaaggtg atttctgaac aaaagcctta ctgtttttga
                                                                                                                                480
  nnagtccana agccatttga aaaataatga atatcctttc cttgtcaagt ggcngtgatt
                                                                                                                                540
  tantgttaca atttgcnagg ttttgtaagt tgcatggtca cagnanaatg cacantnggg
                                                                                                                                600
  acanngagan entgggneng aagteeacat tataneeett tgagnaangt agettteee
                                                                                                                                659
             <210> 263
             <211> 673
             <212> DNA
             <213> Homo Sapiens
             <400> 263
   gagattttga tcacggtaac cgatcagaat gacaacaagc ccgaattcac ccaggaggtc
                                                                                                                                   60
   tttaaggggt ctgtcatgga aggtgctctt ccaggaacct ctgtgatgga ggtcacagcc
                                                                                                                                 120
   acagacgcgg acgatgatgt gaacacctac aatgccgcca tegettacac catectcage
                                                                                                                                 180
   caagateetg ageteeetga caaaaatatg tteaceatta acaggaacae aggagteate
                                                                                                                                 240
   agtgtggtca ccactgggct ggaccgagag agtttcccta cgtataccct ggtggttcaa
                                                                                                                                 300
   gctgctgacc ttcaaggtga ggggttaagc acaacagcaa cagctgtgat cacagtcact
                                                                                                                                 360
   gacaccaacg ataatcctcc gatcttcaat cccaccacgt acaagggtca ggtgcctgaa
                                                                                                                                 420
```

YY U フフ/レヤムレン

L U L I U U J U I L TU I J

360

```
aacgaggota acgtegtaat caccacactg aaagtgactg atgetgatge ceccaatace
  ccagcgttgg gaggctgtat acaccatatt gaatgatgat ggtgggacaa tttgtcgtca
                                                                                                                                480
                                                                                                                                540
  ccacaaatcc agtgaacaac gatggcattt tgaaaaacag caaagttgaa gtcaagtgat
                                                                                                                                600
  tttgctggtt cngaatcaat tgttgcctcn gttgggagaa aggtntccaa cacatacccc
                                                                                                                                660
  gggattngtt att
                                                                                                                                673
            <210> 264
            <211> 661
            <212> DNA
            <213> Homo Sapiens
            <400> 264
 ccatccaaga taactttatt ccattttgca ttatttgata actatttcct teccetecee
                                                                                                                                  60
 acctccaact gcatctccta ctctgaaatn cctcttgagc agccaagggt ggeeagttct
                                                                                                                                120
 gctcctcatt ttcctgaaga anaatctcag cctgaaagaa tatagagcta ggtgacatat
 gggtggccaa ccgcttctcc tcaagttcca anagagtggg caattagtga aattccatca
                                                                                                                                180
 gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg
                                                                                                                                240
                                                                                                                                300
 aaaaatgtag attaatgaga tetgtaaetg tettetetta aetgtaeaec eeteaggetg
                                                                                                                                360
 aacgegggag tgetgaacae atgeeetegg aagggaeeet gaagaeeeaa gtgaeetgea
 ccataaaacc accccgaggg tcagccatgc tgccagcact caagaagcag cagggccacc
                                                                                                                                420
                                                                                                                                480
 tgctggaaaa ctgggcacgg ctctgggtgc ctggccctgc ctgcctcctc cacgtccttg
 gagccaggte tacggcaggg aacatgatet tettetecag_ettetgtgga_aggaacanga-
                                                                                                                                540
                                                                                                                                600
 aatttttcat gatgtentee agetetteta nggeeaactg ggeatggane ttggeeacgt
                                                                                                                                660
                                                                                                                                661
           <210> 265
           <211> 659
           <212> DNA
           <213> Homo Sapiens Transfer of the Control of the C
                                              in the contrative section of given in
           <400> 265
                                        17.75 经未经济的数据,或据用数据重加。18.75 · 19.
ccatccaana taactttatt ccattttgca ttatttgata actattteet teeecteece
                                                                                                                                 60
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct
                                                                                                                                120
gctcctcatt ttcctgaana anaatctcag cctgaaagaa tatanagcta ggtgacatat
                                                                                                                                180
gggtggccaa ccgcttctcc tcaagttcca ananagtggg caattagtga aattccatca
gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg
                                                                                                                                240
                                                                                                                               300
aaaaatgtag attaatgaga tetgtaaetg tettetetta aetgtaeaee eeteaggetg
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca
                                                                                                                               360
ccataaaacc accccgaggg tcagccatgc tgccagcact caaaaagcag cagggccacc
                                                                                                                               420
tgctggaana actgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt
                                                                                                                                480
gganccaggt ctacggnagg accatgatct tcttctccan cttctgtgga aggaacanga
                                                                                                                                540
                                                                                                                                600
antittteat gatgtentee actettetag ggecaactgg geatggaett ggecaegte
                                                                                                                                659
           <210> 266
           <211> 620
           <212> DNA
           <213> Homo Sapiens
          <400> 266
acctccaact gcatctccta ttntnaaatg cctcttgagc agccaagggt ggccagttct
                                                                                                                                 60
gctcctcatt ttcctgaana anaatctcag cctgaaagaa tatagagcta ggtgacatat
                                                                                                                               120
gggtggccaa ccgcttctcc tcaagttcca ananagtggg caattagtga aattccatca
                                                                                                                               180
                                                                                                                               240
gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg
aaaaatgtag attaatgaga tetgtaactg tettetetta actgtacace eetcaggetg
                                                                                                                               300
```

YY ₩ 221₩03

```
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca
                                                                       420
                                                                       480
ccataaaacc accccgaggg tcagccatgc tgccagcact caagaagcag cagggccacc
tgctggaaga cctgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt
                                                                       540
ggagccaggt ctacngcang aacatgatct tcttctccac ttctgtggaa ggaacaggaa
                                                                       600
ntttttcatg atgtcatcca
                                                                        620
      <210> 267
      <211> 745
      <212> DNA
      <213> Homo Sapiens
      <400> 267
cccccagac aggcctgcag tcaaatgctc caatcattcc tcaaggagtc aatgagccca
                                                                         60
gcactactac aagtcagaaa tctggaagcg taaccacaga acagctccaa gaggttcttt
                                                                        120
tgtcagetta tgaccetcaa attecaacae gggetgetge eetgegtaet ettteeeaet
                                                                        1-8-0-
ggatagagca gagagaagca aaagcccttg agatgcaaga gaagcttctc aagatattct
                                                                        240
tggaaaactt ggaacatgaa gacacttttg tatatctatc tgcaattcag ggggttgccc
                                                                        300
tgctgtcaga cgtctatcct gagaaaatct tgccggactt gttggctcaa tatgacagca
                                                                        360
gcaaagacaa gcacacaca gagaccaaga atgaaagtcg gggaagtcct tatgcgaatc
                                                                        420
gtcagggcat taggagacat ggtctcaaag taccgagaac ctttgatcca taccttcctg
                                                                        480
aggggagtga gagateetga tggtgeteae agggeeagea gettgggeaa eettggggag
                                                                        540
ctgtgccaga ggctggactt tctgctgggc tccgtggtcc atgaggtaac agcttgcctg
                                                                        600
attgctgtgg ccaaaaacat tntntgaaag ttcaagttcg cannagctgg ccaanacaat
                                                                        6.6.0
gtggggttgt gcctgcnngc tttcggggga actcaaccca agaaaaagct tantgtaagg
                                                                        720
gtggnttaan conceggtee tteaa
                                                                        745
      <210> 268
    <211>,676;
                                                                          23.79.79.52.
     <212>::DNA::... - *:::
                                                                         1,125 Tw. 9500
    <213> Homo Sapiens
                                                                        The Property of the State
  and granical, huggers of the qui-
                              and the stand
                                                                        nta syrika kepadiah tah
 ccatccaaganbaacEbtatt ccattttgcanttatttgata actatttcct tcccctcccc // 100608870888800480
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct
                                                                        1201
                                                                        18040 $ 30 000
geteeteatt tteetgaana anaateteag eetgaaagaa tatagageta ggtgacatat
gggtggccaa ccgcttctcc tcaagttcca ananagtggg caattagtga aattccatca
                                                                        240
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg
                                                                        300
 aaaaatgtag attaatgaga totgtaactg tottototta actgtacacc cotcaggotg
                                                                        360
 aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca
                                                                        420
 ccataaaacc accccgaggg tcagccatgc tgccagcact caagaagcag cagggccacc
                                                                        480
 tgctggaana cctgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt
                                                                        540
 gggagccagg totacggcag ggaacatgat cttcttctcc agcttctgtg gaaggaacag
                                                                        600
 gaagtttttc atgatgtcat ccanctcttc taaggccaac tgggcatgga acttggccac
                                                                        660
 gtcatcgggc tccaaa
                                                                        676
       <210> 269
       <211> 737
       <212> DNA
       <213> Homo Sapiens
       <400> 269
 aacaaagaca aagaaggcaa ggttttctac agcatcactg gccaaggagc tgacacaccc
                                                                         60
 cctgttggtg tctttattat tgaaagagaa acaggatggc tgaagctctt ctctcacgct
                                                                         120
 gtgtcatcca acgggaatgc agttgaggat ccaatggaga ttttgatcac ggtaaccgat
                                                                         180
```

240

cagaatgaca acaagcccga attcacccag gaggtcttta aggggtctgt catggaaggt

```
getettecag gaacetetgt gatggaggte acagecacag acgeggacga tgatgtgaac
                                                                  300
acctacaatg cegecatege ttacaccate etcagecaag atectgaget ceetgacaaa
                                                                  360
aatatgttca ccattaacag gaacacagga gtcatcagtg tggtcaccac tgggctggac
                                                                   420
cgagagagtt tecetaegta taccetggtg gttcaagetg etgacettea aggtgagggg
                                                                  480
ttaagcacaa cagcaacagc tgtgatcaca gtcactgaca ccaacgataa tcctccgatc
                                                                   540
ttcaatccca ccacgtacaa gggtcangtg cctganaaag aaggctaacg tcgttatcac
                                                                   600
caacactgaa aagtgactga tgcctgatgc cccccaatta ncccanccgt gggaagctgt
                                                                   660
ntacaccata tngaaatgat gatgggtggg cnaatttgtn cgttcaccaa caaatnccan
                                                                   720
gtggaacaac caatggg
                                                                   737
     <210> 270
     <211> 726
     <212> DNA
     <213> Homo Sapiens
     <400> 270
60
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct
                                                                   120
gctcctcatt ttcctgaana anaatctcag cctgaaagaa tatanagcta ggtgacatat
                                                                   180
gggtggccaa ccgcttctcc tcaagttcca ananagtggg caattagtga aattccatca
                                                                   240
gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg
                                                                   300
aaaaatgtag attaatgaga tetgtaactg tettetetta actgtacace ceteaggetg
                                                                   360
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca
                                                                   420
ccataaaacc accccgaggg tengccatge tgccagcact caanaagcag cagggccacc
                                                                   480
tgctggaana cctgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt
                                                                   540
ggagccaggt ctacggcagg aacatgatct tcttctccac ttctgtggaa ggaacangaa
                                                                   600
atttttcatg atgtctccan ctcttctagg gccactgggc atggancttg ggcncntcat
                                                                   660
egggetecaa anacactaet getteaneag gtgggtanaa ateettgaag angggeteae
                                                                   720
acctcc
                 化氯基化物 医高压力性
                                                                   726
              Committee to be a first than the
     <212> DNA ing Marris interest and a relief
     <213> Homo Sapiens
     <400> 271
60
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct
                                                                   120
gctcctcatt ttcctgaaga agaatctcag cctgaaagaa tatagagcta ggtgacatat
                                                                   180
gggtggccaa ccgcttctcc tcaagttcca agagagtggg caattagtga aattccatca
                                                                   240
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg
                                                                   300
aaaaatgtag attaatgaga totgtaactg tottototta actgtacacc cotcaggotg
                                                                   360
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca
                                                                   420
ccataaaacc accccgaggg tcagccatgc tgccagcact caagaggcag cagggccacc
                                                                   480
tgctggaaga cctgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt
                                                                   540
ggagccaggt ctacggcagg accatgatct tettetecag ettetgtggg agggaacagg
                                                                   600
gaagtttttc aatgatgtca tccagctctt cctanggcca actgggcaag ggagcttggg
                                                                   660
caacgtcatc ggggctccag acaaaactac gtgcttcanc aanggtggta aaanatcctt
                                                                   720
gaaggacggg ggctcaacaa cccaagtanc ctttccnggg ctgaatcccc ngaagcaagc
                                                                   780
aagnacaaac cacatgtttt gggaagctcc ggcg
                                                                   814
     <210> 272
```

<211> 862

ママ ❤ ツノバリマルリン

<212> DNA

<213> Homo Sapiens

660

720

780

```
<400> 272
        gtacactgaa cagaaaagat ctggaaggga aaatagaaga gcagcaacaa accagtcatg
                                                                           60
        aaagacccac tgatgtagct catagccacc ttgaacaaca gcagagccat gagacagccc
                                                                          120
        cccagacagg cctgcagtca aatgctccaa tcattcctca aggagtcaat gagcccagca
                                                                          180
        ctactacaag tcagaaatct ggaagcgtaa ccacagaaca gctccaagag gttcttttgt
                                                                          240
        cagettatga eceteaaatt ecaacaeggg etgetgeeet gegtaetett teecaetgga
                                                                          300
        tagagcagag agaagcaaaa gcccttgaga tgcaagagaa gcttctcaag atattcttgg
                                                                          360
        aaaacttgga acatgaagac acttttgtat atctatctgc aattcagggg gttgccctgc
                                                                          420
        tgtcagacgt ctatcctgag aaaatcttgc cggacttgtt ggctcaatat gacagcagca
                                                                          480
        aagacaagca cacaccagag accaagaatg aaagtcgggg aagtccttat gcgaatcgtc
                                                                          540
        agggcattag ggagacatgg tetcaaagta eegagaacet ttgatteata eetteetgan
                                                                          600
        gggagtgaga gattctggat ggtgctcaca agggcagcaa cttgggcaan cttgggggaa
                                                                          660
        ctggtgccag aggctggact ttcngctggg gctccgtggg ccaatggagg gtacaanctt
                                                                          720
        gccctgaatt gctgtgggcc aaaaacaaga tnggtgaaag tttaaagtta cgcaaaactg
                                                                          780
        ccaatacaat gttgggttgt tgccnggctg gnnttccggg ggaatcaagc ccaggaaaag
                                                                          840
        cctaccggan ggggccttaa ac
                                                                          862
             <210> 273
             <211> 677
             <212> DNA
             <213> Homo Sapiens
             <400>-273-
        ccatccaaga taactttatt ccattttgca ttatttgata actatttcct tcccctccc
                                                                           60
        acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct
                                                                          120
       gctcctcatt ttcctgaaga agaatctcag cctgaaagaa tatagagcta ggtgacatat
                                                                          180
       gggtggccaa ccgcttctcc tcaagttcca agagagtggg caattagtga aattccatca
                                                                          240
       gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg
      n aaaaatgtag attaatgaga tetgtaaetg tettenetta aetgtaeaee eeteaggetg 300.3600
       aacgegggag tgetgaacae atgeeetegg aagggaeeet gaagaeeeaa gtgaeetgea 1900.4209
       ccataaaacc accccgaggg tcagccatgc tgccaagcac tcaagaggca gcagggccac
 aaaaaaggaa ntttttcaag gnggtcatcc nangctcctc caaggggnca aaatgggggc
       antggaacct tgggcaa
                                                                       677
             <210> 274
             <211> 863
             <212> DNA
             <213> Homo Sapiens
             <400> 274
       gaaaacagca aagttgaagt caagtgattt tgctgttctg aagcagttgt tgcctctgtt
                                                                           60
       ggagaaggta tecaacacat accetgatee ggteateeaa gaactegetg ttgateteeg
                                                                          120
       catcaccatc totacccatg gagoctttgc cactgaggcc gtcagcatgg ctgcccaaag
                                                                          180
       tacactgaac agaaaagatc tggaagggaa aatagaagag cagcaacaaa ccagtcatga
                                                                          240
       aagacccact gatgtagctc atagccacct tgaacaacag cagagccatg agacagcccc
                                                                          300
       ccagacagge etgeagteaa atgetecaat catteeteaa ggagteaatg ageecageae
                                                                          360
       tactacaagt cagaaatctg gaagcgtaac cacagaacag ctccaagagg ttcttttgtc
                                                                          420
       agettatgae ceteaaatte caacaeggge tgetgeeetg egtactettt eccaetggat
                                                                          480
       agagcagaga gaagcaaaag cccttgagat gcaagagaag cttctcaaga tattcttgga
                                                                          540
       aaacttggaa catgaagaca cttttgtata tctatctgca attcaggggg ttgccctgct
                                                                          600
       gtcagacgtc tatcctgaga aaatcttgcc ggacttgttg gctcaatatg acagcagcaa
```

agacaagcac acaccaagag accaagaatg aaagtcgggg aagtccttat gccaatcgtc

anggcattag ggagacatgg tetcaaagta accgagaace tttgattcat accttectga

TT U JJIUTHUS aggggaatta gagattetga atggtgetea eagggeeaae aacettggen aacettgggg 840 aacctgtgcc anaaggctng gac 863 <210> 275 <211> 821 <212> DNA <213> Homo_Sapiens_ <400> 275 60 acctecaact geatetecta etetgaaatg eetettgage agceaagggt ggecagttet 120 gctcctcatt ttcctgaaga agaatctcag cctgaaagaa tatagagcta ggtgacatat 180 gggtggccaa ccgcttctcc tcaagttcca agagagtggg caattagtga aattccatca 240 gtcatgttaa aatatacttt caccaggtag acatccttct_ttcaatgcta_gaggaeagtg-3-0-0aaaaatgtag attaatgaga tetgtaaetg tettetetta aetgtaeace eetcaggetg 360 aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca 420 ccataaaacc accccgaggg tcagccatgc tgccagcact caagaggcag cagggccacc 480 tgctggaaga cctgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt 540 ggagccaggt ctacggcagg accatgatct tcttctccaa gcttctgtgg agggaacagg 600 aagtttttca tgatgtcatc caagctcttc tanggccaac tgggcatgga gcttgggcac 660 gtcatcgggc tccagacaca ctacgtgctt cancaaggtg gtaaaagatt cttganggac 720 ggngctcanc acctcagtaa nctttctggc tgagtccccc gaaagcaaca-gcacaancca-780 catginingg aaacccigcg tractingaa citcaacaac c 821 <210> 276 <211> 722 <212> DNA <213> Homo Sapiens 12 254 du 18 19 5 co 18 <400> 276 aacagetgtg atcacagtca etgacaceaa egataateet eegatettea atcecaceae 60 gtacaagggt caggtgeetg agaacgagge taacgtegta atcaccacac tgaaagtgac 120 tgatgetgat gececcaata eeccagegtg ggaggetgta tacaccatat tgaatgatga 👑 180 tggtggacaa tttgtcgtca ccacaaatcc agtgaacaac gatggcattt tgaaaacagc 240 aaagttgaag tcaagtgatt ttgctgttct gaagcagttg ttgcctctgt tggagaaggt 300 atccaacaca taccctgate eggteateca agaacteget gttgatetee geateaceat 360 ctctacccat ggagcctttg ccactgaggc cgtcagcatg gctgcccaaa gtacactgaa 420 cagaaaagat ctggaaggga aaatagaaga gcagcaacaa accagtcatg aaagacccac 480 tgatgtaget catagecace ttgaacaaca geagagecat gaagacagee eeceagacag 540 geetgeagte aaatgeteea ateatteete aaggagteaa tgageecage aetaetaeaa 600 gtcagaaatc tggaagcgtt accacagaac agctccaaga ggttcntttg tcagctttat 660 gaacctcaaa ttccaacacg gggctggtgc ctgcgttact cnttcccact gggntagaag 720 722 <210> 277 <211> 805 <212> DNA <213> Homo Sapiens

<400> 277

₹₹ ₩ プラ/∪7#UJ

```
aaaaatgtag attaatgaga totgtaactg tottototta actgtacacc cotcaggotg
                                                                       360
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca
                                                                       420
ccataaaacc accccgaggg tcagccatgc tgccagcact caagaggcag cagggccacc
                                                                       480
tgetgggaag acctgggeac ggetetgggt geetgggeec tgeetgeete etecacgtee
                                                                       540
ttggagccaa ggtctacggc aggaccatga tcttcttctc cagcttctgt ggagggaaca
                                                                      600
ngaagttttt caagatgtca tocaactoot ocaagggoca actggggocat gggagoottg
                                                                      660
geacgteatn egggeteeag acacactaeg gtgetteaac aagggnggta nagattettg
                                                                       720
anggacgggg ctcaaacaat gaacctcant tacctttcng gctgagtccc cnaaagcaac
                                                                       780
aagtacaaac cacatgtttt gggaa
                                                                       805
      <210> 278
      <211> 1358
      <212> DNA
      <213> Homo Sapiens
      <400> 278
agaactcaga getgetette etetgtggee agttggggae cageatcatg aagtggatgg
                                                                       60
tggtggtctt ggtctgcctc cagctcttgg aggcagcagt ggtcaaagtg cccctgaaga
                                                                       120
aatttaagtc tatccgtgag accatgaagg agaagggctt gctgggggag ttcctgagga
                                                                       180
cccacaagta tgatcctgct tggaagtacc gctttggtga cctcagcgtg acctacgagc
                                                                      240
ccatggccta catggatgct gcctactttg gtgagatcag catcgggact ccacccaga
                                                                       300
actteetggt cetttttgae aceggeteet ceaacttgtg ggtgeeetet gtetaetgee
                                                                       3.6.0 _ -
agagecagge etgeaceagt caeteceget teaaceceag egagtegtee acetaeteea
                                                                       420
ccaatgggca aacettetee etgeagtatg geagtggeag ceteaeegge ttetttgget
                                                                       480
atgacaccct gactgtccag agcatccaan gtccccaacc aggagttcgg cttgagtgag
                                                                      540
aatnageetg ggtaecaaet tegtetaage geagtttgat ggeateatgg geetggeett
                                                                       600
accetgetet gteegtggat gaggeeacca cagtatgcag ggcatgtgca ggagggegee
                                                                       660
ctnaaccage ceegtnttea gggtttacnt cageaaccag cagggcteec ageggggag
                                                                       720
cggttgtcct ttgggggtgt ggatagcagc ntgtacacgg ggcagatcta ctgggcgcnt
                                                                       780
gtcacccagg aactctactg gcagattggc attgaagagt tcctcatcgg cggccaggcc
                                                                       840
teeggetggt gttetgagggottgeeaggeesategtggaea caggeacete tetgeteact
                                                                       900
gtgccccage agtacatgagstgctcttctgscaggccacag gggcccagga ggatgagtat
                                                                       960
ggacagtttc tcgtgaactg taacagcatt cagaatctgc ccagcttgac cttcatcatc
                                                                      1020
aatggtgtgg agttccctct gccaccttcc tcctatatcc tcagtaacaa cggctactgc
                                                                      1080
acceptgggag tegageceae etacetgtee teccagaacg gecageceet gtggateete
                                                                      1140
ggggatgtct teetcaggte ctactattee gtetacgaet tgggcaacaa cagagtagge
                                                                      1200
tttgccactg ccgcctagac ttgctgcctc gacacgtggg ctcccctctt cctcttgacc
                                                                      1260
ctgcaccctc ctagggcatt gtatctgtct ttccactctg gattcagcct tcttttctg
                                                                      1320
gactotggac tttctctaat aataaatagt tcttcttt
                                                                      1358
      <210> 279
      <211> 702
      <212> DNA
      <213> Homo Sapiens
      <400> 279
gaagcaatga atacgcaatt agaactttca gaacaactta aatttcagaa caactctgaa
                                                                        60
gataatgtta aaaaactaca agaagagatt gagaaaatta ggccaggctt tgaggagcaa
                                                                       120
attttatatc tgcaaaagca attagacgct accactgatg aaaagaagga aacagttact
                                                                       180
caactccaaa atatcattga ggctaattct cagcattacc aaaaaaatat taatagtttg
                                                                       240
caggaagagc ttttacagtt gaaagctata caccaagaag aggtgaaaga gttgatgtgc
                                                                       3.00
cagattgaag catcagctaa ggaacatgaa gcagagataa ataagttgaa cgagctaaaa
                                                                       360
gagaacttag taaaacaatg tgaggcaagt gaaaagaaca tccagaagaa atatgaatgt
                                                                       420
```

A - A1 - OU / O1 A - O1 /

480

540

gagttagaaa atttaaggaa agccacctca aatgcaaacc aagacaatca gatatgttct

attctcttgc aagaaaatac atttgtagaa caaagtagta aatgaaaaag tcaaacactt

TT C 27/104403

```
agaagatacc ttaaaaagaa cttgaatctc aacacagtat cttaaaaaga tgagggtaac
                                                                                                                              600
ttatatgaat aatcettaag tttaaaactt gaaaatggga tgeetcaace attttaaagg
                                                                                                                              660
gtngaggttt tttccangna accgggggaa gaccttaaaa gg
                                                                                                                              702
          <210> 280
          <211> 874
          <212> DNA
          <213> Homo Sapiens
          <400> 280
aactcaaaac agtgttaagt teetatgetg ttagtaetgt atettgteea cacetcaaac
                                                                                                                                60
aacagtgaga tetetgagca catggtetgt aceteaacea ettttetate accagggtet
                                                                                                                              120
agaatagttg ggcatttaaa taaaatttgc taaatgaatg aaaaatccaa aataaatcat
                                                                                                                              180
gaagccattt ataaatcaca ccaatcttgc ttgggttaaa caatagaaag taacactttt
                                                                                                                              240
gaaagagaag gcaaacaggt gttagagggg caagaatgtg agctcgagga aaagacagct
                                                                                                                              300
acgaactgtg tttttaacaa ctcattattt ggctactata tttcccaatc tattctaaca
                                                                                                                              360
ctaagaagaa tetgtetaat taattgtgae aacatetgea aaaccatagt tacctatttt
                                                                                                                              420
ttetteeaac tettttactg aagacagagg atcattttt acagaaggtg attttgetaa
                                                                                                                              480
ggaatcctan attttacagg ggggaaaaaa aaacacnaaa caaaacaaaa accagaatca
                                                                                                                              540
gaattcattt tccataatga actggccatc ntgttaagca taanaaaatc actatcaaag
                                                                                                                              600
anaatteeta cagaaaccaa tttggtcaca gaattteeet tgttanacca gaaaattaat
                                                                                                                              660
actgaactta ctatgcatat ggcatttact attaaaaaaa aaaaagtant aaccaaggcc
                                                                                                                              720
aaganaaaca acctgaaaca ttaaatacat ntttataagg aaaaantaaa tgaatttaa
                                                                                                                              780
tettaatttt aaanaaaaac enaaaatttt nneataceee eeegetetta ettaaaaant
                                                                                                                              840
gncttaccaa aatactaanc ctttccccaa aacc
                                                                                                                              874
          <210> 281
          <211> 730
          <212> DNA
                                一人のお捨る物料的語句(こうは)
          <213> Homo Sapiens
                         ne de la california de la companio della companio d
          acaaaacago agotggaaag@agaaatgtag:gtggcagacg agocaggcac gaggtttcag
                                                                                                                                60
attggaaggg accaagatga ggaccaaggt gtggctgcct gactaggaac gctgtgggct
                                                                                                                              120
ggeceagget etegecaeae ateetgggan aactgecata ggecetagaa ggagggatga
                                                                                                                              180
aaggegtatg ggagggaana cageggteee eggateagea geageaceae cateetetga
                                                                                                                              240
tggcccctgg gcagtccgcc agctcggaag cactcagggc tggagcctgg gctctaagca
                                                                                                                              300
tgggccccag gagccanaca ggagggaggc agcaggaang gctggcatgg aagggctgag
                                                                                                                              360
ttctattggg gtcccacgcg ggcaagggaa ccaggactca tccctgcttg tcagccaatc
                                                                                                                              420
agettettea ggaageetee aactgateet cateettgat geecacaaac ttgtecacca
                                                                                                                              480
cgtccccatt cttcatggcc agcacagtgg gcaccgctga cacctcatac tcaatggcga
                                                                                                                              540
agtetgtgtg gtenteaata tecacettgg ceateaceae ettecegtge tgettggeea
                                                                                                                              600
ccatcttctc taacctccgn cccangatct tcagggtcca caccactgtg cgtggaaatc
                                                                                                                              660
cacaaccact ggtgtctcct gtttgaacac teegtettga aantengtee nteetgnata
                                                                                                                              720
ttaaaggttg
                                                                                                                              730
           <210> 282
           <211> 699
           <212> DNA
           <213> Homo Sapiens
           <400> 282
agaactcaga gctgctcttc ctctgtggcc agttggggac cagcatcatg aagtggatgg
                                                                                                                                60
tggtggtett ggtetgeete cagetettgg aggeageagt ggteaaagtg eeeetgaaga
                                                                                                                              120
aatttaagtc tatccgtgag accatgaagg agaagggctt gctgggggag ttcctgagga
```

```
cccacaagta tgatcctgct tggaagtacc gctttggtga cctcagcgtg acctacgagc
                                                                    240
ccatggccta catggatgct gcctactttg gtgagatcag catcgggact ccaccccaga
                                                                    300
acttectggt cettititgae accggeteet ceaacttgtg ggtgeeetet gtetaetgee
                                                                    360
agagccagge etgeaccagt cacteceget teaaccecag egagtegtee acetaeteca
                                                                    420
ccaatqqqca aaccttctcc ctgcagtatg gcagtgqcag cctcaccggc ttctttggct
                                                                    480
atgacaccct gactgtccag agcatccaan gtccccaacc aggagttcgg cttgagtgag
                                                                    540
aatnagcctg ggtaccaact tcgtctaagc gcanttttga tgggatcaag ggcctgggcc
                                                                    600
taacctqqct ctqtcccqtt ggattaaggc caccacaagc tatntagggc nattnggntc
                                                                    660
aaggatgggt gtenetttat nnageceeg tnettteaa
                                                                    699
     <210> 283
     <211> 759
     <212> DNA
     <213> Homo Sapiens
      <400> 283
qaaattgaga actgatttaa tactaaagtt ctgaataaag gtgtgcactt tatgattgat
                                                                     60
totatetttt tgcacaagtt ggatacteca gttteccate ccaacatgtt gttegcaatg
                                                                    120
tqtqaqaacq tgatgaaaga cgatatcccc gtttacacac aaattcaact gattcacctg
                                                                    180
ttctcqaata aaqcttctgt ttggctgtcc accttaatgc tatgttataa ttttccataa
                                                                    240
tttctcggga tattacacac ggatgtaagc attttggtgg ttctgaccat tgtccatttc
                                                                    300
tacatgttat tegettgtta ceetcaagtt gatacaagtt etggeattgg tactcaactg
                                                                    360
atgaagetgg ageatatact gacaacggga atgaagtaat gtccccattg tcaataggtg
                                                                    420
qaqqqqccc acattttcct gtagaatctt tgcattgagg tggttccgtc cagtttccat
                                                                    480
ttaaacacat cacttettea teeccaaaca ttteataagg geteetacat tgataacgta
                                                                    540
ctctctcacc agatggatat ttactcatct gtctcgacac tatataagca ttttgtactg
                                                                    600
tgggcggatt ccacangang tgtctctgca tgttgggctt cctgtccact gctattaatg
                                                                    660
catqttacat tactggctcc accattttgt aatatgttgc acaagtttta gtccttgctc
                                                                    720
accccttat acacatcctt ctctctccat gggtttggc
                                                                    759
          一点,一点,不是不是四种种的大块的小块。 医皮肤 人名英格兰
      <213> Homo Sapiens : ... :....
                     122 2 4 5 5 5 5 m t t
      <400> 284
ggaccgcgat gacgcagact ggagggaggt gatgatgccc tattcgacag aactgatatt
                                                                     60
ttatattgaa atggateete eagetettee accaaageea eetaageeaa tgaetteage
                                                                    120
agttccaaca tggaatgaag gacagttctg tttctcttca ggatgcagaa tggtactggg
                                                                    180
gggatatttc aagggaggag gtaaatgaca aattgcggga tatgccagat gggaccttct
                                                                    240
tqqtccqaqa tgcctcaaca aaaatgcagg gagattatac tttgactttg cggaagggag
                                                                    300
gcaataataa gttaataaag atctatcacc gggatggtaa atatggcttt tctgatcctc
                                                                    360
tgacatttaa ttccgtggtg gagctcatta accactatca ccatgaatct cttgctcagt
                                                                    420
acaatcccaa acttgatgtg aagctgatgt acccaagtgt ccagatacca acaggatcag
                                                                    480
ttggtaaaag aagataatat tgatgcagta ngtaaaaaac tgcaagaata ccactctcaa
                                                                    540
gtatcaggag aagagtaaag gagtatgata ngctgtatga agaatatact agaacatccc
                                                                     600
 aaggaaatac agatgaagag gactgcaata gaaagctttt aatgaaaaca ttaaaatatt
                                                                     660
 tqqaaqaqca ntqtcacaca caaggaacca acattnccaa agaatatatt gagnngattt
                                                                     720
 cncaaaanaa ggggaaatga aaagggggan ttgaacgaaa ttta
                                                                     764
       <210> 285
```

<211> 586

<212> DNA

<213> Homo Sapiens

1 C 1/ C C / C / A / C / /

```
<400> 285
gcattgcacc ttttctttac ccatacaaac aagttacaaa ggtttcaaac aacagntcat
                                                                        60
tetttagget aaggaaacae catacaagca ccaactteat tttangatte aaageteace
                                                                       120
atccccacaa aaagaatgct attccncatc tcagagaaac aggcaggaag gacanaaggg
                                                                       180
gttagttaca gtgatcaatt ttagcgtttg ctaaaacnca caaattcnag nctttttaag
                                                                       240
ttcaagtttt ggtacagaag tatacattca actatgagtg ccacgttttc ccatcaaaca
                                                                       300
ttggnctggc aacaaactgt tttgttggct tctgaacata atacttcttc anagggaggg
                                                                       360
gctggtgaaa tgctgaancc taaattatgt tggnaagaaa caaagtacct tcanttgaag
                                                                       420
gtttttttta acancingge ttaaattatt taaatgaaan eccaageete cenatitnee
                                                                       480
tttggtngcc ttttncanaa aatcccattc natcacaaaa ccctaaaaag ccttcttcgt
                                                                       540
nggggggaaa aaananactg ccaaangcaa aaacaaaaac ncccaa
                                                                       586
      <210> 286
      <211> 666
      <212> DNA
      <213> Homo Sapiens
      <400> 286
geetggagtt cagtgggtge ageetgettg egagetgagg ecagaeaggg gggegeetae
                                                                        60
ggacggaaaa gaaaagttga ttacaaacgg gaccatattt tgcttcgaaa tggaaccagc
                                                                       120
agttagegag ccaatgagag accaagtege aeggaeteat ttgacagagg acaeteceaa
                                                                       180
agtgaatgct gacatagaaa aggttaacca gaatcaggcc aagagatgca-cagtgatcgg
                                                                       240---
gggctctgga ttcctggggc agcacatggt ggagcagttg ctggcaagag gatatgctgt
                                                                       300
caatgtattt gatatccagc aagggtttga taatccccag gtgcggttct ttctgggtga
                                                                       360
cctctgcagc cgacaggatc tgtacccagc tctgaaaggt gtaaacacag ttttccactg
                                                                       420
tgcgtcaccc ccaccatcca gtaacaacaa ggagctcttt tatagaagtg aattacattg
                                                                       480
gcaccaagaa tgtcattgaa acttgcaaag aggctggggt tcagaaactc attttaacca
                                                                       540
gcagtgccat gtcatctttg agggcgtcga tatcaagaat ggaactgaaa gaccttccct
                                                                       600
nagccattga aaccaattga cctactacac aaganactaa agatcttaca ngagaaggca
                                                                       660
atttct
             District and the second
                                                                       666
               the of the Cartier of the
      <210> 287 - ### Lindbird Distriction
      <211> 782 / aga aga attayou xxx
      <212> DNA : :
      <213> Homo Sapiens .....
      <400> 287
gacagagaac aaatcggtat aatatgaagc tgcctgcttc aagaaatcca aatccagttc
                                                                        60
catgaaggaa gaaatgtctg tttttgccgc cctcatcgtc acggaaagag tagggtgcgc
                                                                       120
tetetgeeta geagaaggag teacaggete agageaaact catteaaagg atgttattte
                                                                       180
atcaatccac aggggaagga gtgactggct gagcaacgtg tcgagagagc ccagcctcca
                                                                       240
gtgtccctca cttgaccctc cgcaggtggc gaaagctctg cacggtcctc tccatagcat
                                                                       300
catccatggt cactagtggc tggtagccca tggccttttt ggctctctcg cagctgtagt
                                                                       360
agtggaatgt gccagccagt gcgacccgca tgggtgtgaa ggtgggctgc agctggatga
                                                                       420
caggactgat caccatcacc agcagggata gcaggagggc caggtagtag gccacccagt
                                                                       480
aggggatgtg gtacttgggg gcctcataat tgaggcctgt caaggatgcg agacaggaat
                                                                       540
gtccaaaaag ggatgggctc atcattggtg atgtgaaatg ccttcccacc cagtgtcgag
                                                                       600
tetengggan anetgetetg eegecaagat tgtecatggg accaaggtte teacaaaggt
                                                                       660
gaaagtccac caagttcctc ccaatttcca atcacgaaac ttcaaccttg ccgttcctgg
                                                                       720
ctgcctccat gaaggatggg ttacaaactg ccgggttccc tttggggccg aaaaattgcc
                                                                       780
aa
                                                                       782
      <210> 288
```

<211> 707

<212> DNA

<213> Homo Sapiens

<400> 288 gtggttccag cgccggtttt gaccgccaca ttaccatttt ttcacccgag ggtcggctct 60 accaagtaga atatgetttt aaggetatta accagggtgg cettacatca gtagetgtca 120 gagggaaaga ctgtgcagta attgtcacac agaagaaagt acctgacaaa ttattggatt 180 ccagcacagt gactcactta ttcaagataa ctgaaaacat tggttgtgtg atgaccggaa 240 tgacagetga cagcagatee caggtacaga gggcacgeta tgaggcaget aactggaaat 300 acaagtatgg ctatgagatt cctgtggaca tgctgtgtaa aagaattgcc gatatttctc 360 aggictacac acagaatgct gaaatgaggc ctcttggttg ttgtatgatt ttaattggta 420 tagatgaaga gcaaggccct caggtatata agtgtgatcc tgcaggttac tactgtgggt 480 ttaaagccac tgcagcggga gttaaacaaa ctgagtcaac cagcttcctt gaaaaaaaag 540 tgaagaagaa atttgattgg acatttgaac agacagtgga aactgcaatt acatgcctgt 600 ctactgttcc atcaattgan ttcaaacctt cagaaataga aattgggagt aatgacagtt 660 gaaaatccta aattcangan tcctacagaa gcagagattg atgctca 707 <210> 289 <211> 673 <212> DNA <213> Homo Sapiens <400> 289 atggcaccat cacaacaaag gaacttggaa ctgtcatgag gtcactgggt cagaacccaa 60 cagaagctga attgcaggat atgatcaatg aagtggatgc tgatggtaat ggcaccattg 120 acttccccnn atttttgact atgatggcta gaaaaatgaa agatacagat agtgaagaag 180 aaatccgtga ggcattccga gtctttgaca aggatggcaa tggttatatc agtgcagcag 240 aactacgtca cgtcatgaca aacttaggag aaaaactaac agatgaagaa gtagatgaaa 3.00 tgatcagaga agcagatatt gatggagacg gacaagtcaa ctatgaagaa ttcgtacaga 💛 360 😙 tgatgactgc aaaatgaaga cctactttca actccttttt cccccctcta gaagaatcaa 1921 1420 1800 attgaatett ttaettaeet ettgeaaaaa aaaaaaaaat aagneanaaa annnataaaa 300.480 30 aaaaaaacne gagagtaett etaaagegge egegggeena tegattttee accegggtgg ggtaccaggt aagtgtccca attcgcccta taggggagtc gtattacaat tcacggggcc 15006000000 Larger geogetitte aaacgionig acgggggaaa accotggngt taccaactia atcccctig ankim660 (A.a. caacaaatnc ccc <210> 290 <211> 573 <212> DNA <213> Homo Sapiens <400> 290 gcaagaggta agtaaaagat tcaatttgat tcttctanag gggggaaaaa ggagttgaaa 60 gtaggtcttc attttgcagt catcatctgt acgaattctt canagttgac ttgtccgtct 120 ccatcaatat etgettenet gatcatttea tetaettett eatetgttag ttttteneen 180 aagtttgtca tgacgtgacg tagttctgct gcactgatat aaccattgcc atccttgtca 240 aagactegga atgeeteaeg gatttettet teaetatetg tatetttean tittenagee 300 atcatagtca aaaattcggg gaantcaatg gngccattac catcagcatc cacttcattg 360 atcatatect gnaatteaan ettetgttgg gttntgacee antgacenca nggacaagtt 420 ccaagtteec titggttgtg aagggtgeea netegtgeec gaatteettt gggnteenae 480 gangggtena accetgcana ggngcegcga ancetecaan ettttggtte ceetttanat 540 ngagggttaa atttcgaact ttggnttttt tcc 573

<210> 291

<211> 819

<212> DNA

<213> Homo Sapiens

	> 291						
aaagaagaac	tatttattat	tagagaaagt	ccagagtcca	gaaaaagaag	gctgaatcca	60	
gagtggaaag	acagatacaa	tgccctagga	gggtgcaggg	tcaagaggaa	qaqqqqaqcc	120	
cacgtgtcga	ggcagcaagt	ctaggcggca	gtggcaaagc	ctactctqtt	gttgcccaag	180	
tcgtagacgg	aatagtagga	cctgaggaag	acatccccga	ggatccacag	ggactaacca	.240	
ttctgggagg	acaggtaggt	gggctcgact	cccacggtgc	agtagecett	gttactgagg	300	
atataggagg	aaggtggcag	agggaactcc	acaccattga	tgatgaaqqt	caagetgggg	360	
agattotgaa	tgctgttaca	gttcacgaga	aactgtccat	actcatcctc	ctagacccct	420	
gtggcctgca	gaagagcact	catgtactgc	tggggcacag	tgagcagaga	gatacctata	480	
tccacgatgg	cctggcaacc	ctcagaacac	cagccggagg	cetggeegee	gatgaggaac	540	
tetteaatge	caatctgcca	gtagagttcc	tgggtgacan	gcgcccaqta	gatetgeece	600	
gtgtacango	tgctatccac	acccccaaag	gacaaccgct	ccccqctqq	gagecetact	660	
ggttgctgan	gtaaaccctg	aanacggggc	tggttnaggg	cgccctcctq	cacatgeest	720	
gcatactgtg	gtggcctcat	ccacggncna	aaccanggta	aggcaaggcc	catgatgcca	780	
tcaaactgco	ataacaaatt	tgtacaaggc	tcaatccca		55	819	
				•			
	> 292						
	> 664	•					
	> DNA						
<213	> Homo Sapi	ens					
	> 292						
ctcgcgctcg	cgctggtggc	ggtcgcctgg	gtccgcgccg	aggaagagct	aaggagcaaa	. 60	
tccaagatct	gtgccaatgt	gttttgtgga	gccggccggg	aatgtgcagt	Cacagagaaa	120	
ggggaaccca	cctgtctctg	cattgagcaa	tgcaaacctc	acaagaggcc	tatatataac	190	
agtaatggca	agacctacct	caaccactgt	gaactgcatc	gagatgcctg	cctcactgga	2.40	
	aggttgatta	cgatggacac	tgcaaaqaqa	agaaatecot	aagtccatct	S 200 200	14
- Yaran yacageddag	Ligitigeta	tcagtccaac	cgtgatgagc	tecgaegteg	catcatccas	3.0 1 DEO	
Lygunggaan	cryagateat	tccagatggc	tggttctcta	aaggcagcaa	chacacteras	2.420	
a constant and a cons	agratttaa	agaactttga	taatggtgat	tctcgcctgg.	actccaagtg	480	14.05
- Maria Maria de Coccegaa	grungeggga.	acangaatga	aactgccatc	aatattacaa	catttccagn.	30.3 S40	
accaagggag	aacaacaagt	ttgcctaang	ggactccggt	ngttgatgcc	teteaattte	600	
aactggtetg	gatgaaaaat	gcctgàttgg	gnaattnaag	cttcccaant	agtttcncca	660	
aatg						664	
~210	× 202			•			
	> 293 > 719						
	> DNA		,				
	> DNA > Homo Sapie	anc					
\213	> 1101110 Bapit	=115			,		
<400	> 293						
		tcaatagtat	CCGaaaaacca	2022+02		_	
caagttaaat	gcaatatana	agcctactaa	atacaaatac	agattagga	yuudaaaaa	60	
aacagaaact	tgtttanatt	gtttcttgaa	atttaactac	ttassssss	acacatatge	120	
gaaagacatt	cagactggtc	cacgtgggct	tattaggagg	Canadaacat	ayyugtaaag	180	
aaaactgata	tagtccaaag	tcacggcatg	taggaatat+	tccatacas	otgetteea	240	
acagatocta	tagtgtttag	aaaactacac	acacacaca	accesses	orgatetta	300	
ctaaqcccta	tgcttttaga	gggctgaagg	aaccaaacct	agcccaagga	agectgcagg	360	
ctccatgcaa	aactttatoo	aagactcccc	agactagget	agricaatco	rgtttgtttg	420	
qqtcctcaga	tcatotoatt	ctacggcata	naccaccacc	accuageage	ttccatgaat	480	
gcagaachda	agaagaatgt	ggatttgctc	ttagasatt	geectattta	cacagaagct	540	
tettagaata	ataaccatot	totasatoso	tagtgagee	aatgttgcag	ggtanantaa		
aacaaattaa	totactetto	tctaaatgac cccctcccat	aatotoosia	accigiggit	tettgetttt		
	.5 = = = = = = =		uncycodad	ggccgggtaa	aacctttga	719	

```
ママ い ファロマルロシ
          <210> 294
          <211> 762
          <212> DNA
          <213> Homo Sapiens
          <400> 294
    agctaaggag caaatccaag atctgtgcca atgtgttttg tggagccggc cgggaatgtg
                                                                           - 60
    cagtcacaga gaaaggggaa cccacctgte tetgcattga gcaatgcaaa cctcacaaga
                                                                           120
    ggcctgtgtg tggcagtaat ggcaagacet acctcaacca ctgtgaactg catcgagatg
                                                                           180
    cctgcctcac tggatccaaa atccaggttg attacgatgg acactgcaaa gagaagaaat
                                                                           240
    cegtaagtee atetgecage ceagttgttt getateagte caacegtgat gageteegae
                                                                           300
    gtcgcatcat ccagtggctg gaagctgaga tcattccaga tggctggttc tctaaaggca
                                                                           360
    gcaactacag tgaaatccta gacaagtatt ttaagaactt tgataatggt gattctcgcc
                                                                           420
    tggactccag tgaattcctg aagtttgtgg aacagaatga aactgccatc aatattacaa
                                                                           480
    cgtatccaga ccaggagaac aacaaagttg cttaggggac tctgtgttga tgccctcatt
                                                                           540
    gaactgtetg gatgaaaatg etgattggna acteagette caagagttte teaaagtgee
                                                                           600
    ctcaaaccca tctttcaacc ctcctgagaa agaagtgtgc cctgngaggg attaaacgta
                                                                           660
    atgcagatgg agnctgagac cnaaggtgga cengttnacc gcctgtgtcc ggtgcccggt
                                                                           720
    ggaaattggg tenggtneag ceatgaacet gttaegggaa ag
                                                                           762
          <210> 295
          <211> 708
          <2125 DNA
          <213> Homo Sapiens
          <400> 295
    cactttaatt tetttattea teaatagtat eegaaaagga agaateagga gttacaaaaa
                                                                            60
    caagttaaat gcaatataga agcctactaa atacaaatac aagttcacaa acacatatgc
                                                                           120
    aacagaaact tgtttanatt gtttcttgaa gtttgactac ttaaaaacat aggtgtaaag
                                                                           180
    gaaagacatt cagactggtc cacgtgggct tgttagcagg cagaggaacc ctgctttcca
                                                                           240
   aaaactgata tagtccagag tcacggcatg tgggaatgtt tccatggaca ctggatctta
                                                                           300
acagatgeta tagtgtttac aaaactacac acacagagaa agcccaagga agcctgcagg
                                                                           360
   ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgtttg
                                                                           420
    ctccatgcaa aactttatgg aagactcccc agactaggct atttagcagc ttccatgaat
                                                                           480
    ggtcctcaga tcatgtgatt ctacggcata gacgacagct gccctattta cacagaagct
                                                                           540
    gcagaactca agaggaatgt ggatttgctc ttgggagttc aatgttgcag ggtaaaagta
                                                                           600
    gtcctggatg ataaccatgt tccaaatgac taagtgaaga gacactgtgg gttcctgcct
                                                                           660
    tttaacaaaa tgggggtact cctgcccctc ctccccanaa atgtccaa
                                                                           708
          <210> 296
          <211> 652
          <212> DNA
          <213> Homo Sapiens
          <400> 296
    cactttaatt tetttattea teaatagtat eegaaaagga agaateagga gttacaaaaa
                                                                            60
    caagttaaat gcaatataga agcctactaa atacaaatac aagttcacaa acacatatgc
                                                                           120
```

aacagaaact tgtttanatt gtttcttgaa gtttgactac ttaaaaacat aggtgtaaag 180 gaaagacatt cagactggtc cacgtgggct tgttagcagg cagaggaacc ctgctttcca 240 aaaactgata tagtccagag tcacggcatg tgggaatgtt tccatggaca ctggatctta 300 acagatgeta tagtgtttac aaaactacac acacagagaa agcccaagga agcctgcagg 360 ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgtttg 420 ctccatgcaa aactttatgg aagactcccc aagactaggc tatttagcag cttccatgaa 480 tggtcctcag atcaagtgat tctacggnat anacgacaag ctgccctatt tacacagaag 540 ctgcangaac tcaagaggga atgtgggatt gcccctgggg agttcaatgg ttgcangggt 600 77 V 2210740J

```
aaaagttant cttgggntga ataaccaggt ttctaaaatg accaaattga aa
                                                                       652
      <210> 297
      <211> 879
      <212> DNA
      <213> Homo Sapiens
      <400> 297
cactttaatt tetttattea teaatagtat eegaaaagga agaateagga gttacaaaaa
                                                                        60
caagttaaat gcaatataga agcctactaa atacaaatac aagttcacaa acacatatgc
                                                                       120
aacagaaact tgtttagatt gtttcttgaa gtttgactac ttaaaaacat aggtgtaaag
                                                                       180
gaaagacatt cagactggtc cacgtgggct tgttagcagg cagaggaacc ctgctttcca
                                                                       240
aaaactgata tagtccagag tcacggcatg tgggaatgtt tccatggaca ctggatctta
                                                                       300
acagatgeta tagtgtttac aaanetacac acacagagaa ageecaagga ageetgcagg
                                                                       360
ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgtttg
                                                                       420
ctccatgcaa aactttatgg aagactcccc agactaggct atttagcagc ttccatgaat
                                                                       480
ggtcctcaga tcatgtgatt ctacggcata gacgacaget gccctattta cacagaaget
                                                                       540
gcagaactca agaggaatgt ggatttgctc ttgggagttc aatgttgcag ggtagaagta
                                                                       600
gtcctggatg ataaccatgt tccnaaatga ctagtgaaga gacactgtgg tttcctgcct
                                                                       660
ttaacaaant ggtgtactcc ttgccctcct ccaatantgt ccaaagggct ggtaaaaacc
                                                                       720
ctttgattaa aggcgtgctg cctgttgagt tccccaangg nacttgggac anggganccg
                                                                       780
catttcaaga ccggaacada ttgggagttt tgaaaaaagt ttttaaatng ggaatgggtt
                                                                       840
acataaaaan gottgaaatg gotaaaacaa aggngggaa
                                                                       879
      <210> 298
      <211> 697
      <212> DNA
      <213> Homo Sapiens :
        THE STATE WAS ARRESTED AND THE
                                                                              NATIONAL AND
    THE GOLD MANAGEMENT OF THE
aaagaatcgg:atatgaaggt-gccaactgta agtttgaaag tatctgaaag tgtaattgat
gtgaaaacaa::cbatggaaag:cbatatctaat acgtctacgc agtctctcac agcagaaaca
                                                                        ា60១១១១១គ្នានេះគ្នា
                                                                       1200 wikesayak
aaggacatagsettbggaaccestaaggaacaa aaacatgaag acaggcagag caatacacct
tetecteetg tragtacett tteateaggt aettetacea eeagtgatat tgaagtttta
                                                                       1800 or Wasterways
                                                                       240
gatcatgaaa gtgtaataag tgagagctca gegagetega gacaagagae tacagattca
                                                                               5.000
                                                                       300
                                                                               23 3 2 25
aaatcaagtc ttcacttgat gcagacatct tttcagcttc tctctgcatc tgcttgtcct
                                                                       360
gaatataatc gtttagatga tttccaaaaa ctcactgaga gttgctgttc atctgatgct
                                                                       420
tttgaaagaa tagactcatt tagtgtacag tcattagata gccggagtgt aagtgaaatc
                                                                       480
aattcaagat gatgaattgt caggcaaggg gatatgcttt agtgcctatt ataagttaat
                                                                       540
tetteaaete caaaagteta aaacagttga atetgeegaa ggaaaatetg aagaagtaaa
                                                                       600
tgaaacatta agttatacca ctgaggaagc agaaatggga agaaaagtgg gcgaaagtgg
                                                                       660
caactccccg gttaacngng aaaangcctg gatatcc
                                                                       697
      <210> 299
      <211> 510
      <212> DNA
      <213> Homo Sapiens
      <400> 299
aaanaatnaa ttatgttaan aactttatta ttttcnantc cttttaaang gntgtnaaat
                                                                        60
aatacttent ecaaatentt taaatgttnt naangeentt genaaateet tataaataaa
                                                                       120
ttttcnccct tatccaancn catcnanaaa acattgaata tgttcaggtt tcncnggann
                                                                       180
ggtnccnaaa ggnnccncnt tttatacnga cttaattgtn aaagengggt gaaataaatt
                                                                       240
ttccnatcna aattttttt aagtttaaat cnttcccncn ttaaatttcn nanagtgtcc
                                                                       300
gtgtnactcc tacttttaaa ggaaaaaaat tantttaaaa tttaatancc cccgatttaa
```

360

*** ひょうかいてんしょう はんしゅう はんしゅう はんしゅう はんしゅう はんしゅう はんしょう はんしょう はんしょう はんしょう はんしょう はんしょう はんしょう はんしょう はんしゅう はんしゅん はんしゃ はんしゃ はんしゃん はんしゃ

```
taatttttta ctttaacnen taatgttent ttteetgaae nntaattaan aaatgttgaa
                                                                      420
attttaaatg tnaaanantc caantttccg tntgttaaca ttacncctcc aatgttcnta
                                                                      480
atatatntnt taaccentne caattatnga
                                                                      510
      <210> 300
      <211> 625
      <212> DNA
      <213> Homo Sapiens
      <400> 300
attagatago oggagtgtaa gtgaaatcaa ttoagatgat gaattgtoag goaagggata
                                                                       60
tgctttagtg cctattatag ttaattcttc aactccaaag tctaaaacag ttgaatctgc
                                                                      120
tgaaggaaaa tctgaagaag taaatgaaac attagttata cccactgagg aagcagaaat
                                                                      180
ggaagaaagt ggacgaagtg caactcctgt taactgtgaa cagcctgata tettggttte
                                                                      240-
ttctacacca ataaatgaag gacagactgt gttagacaag gtggctganc agtgtgaacc
                                                                       300
tgctgaaagt cagccanaan cactttctga caaggaanat gtttgcaata cagttgaatt
                                                                      360
tetgaatgaa aaagenggaa aaaagggang eteagttatt atetettagt aaggaaaaag
                                                                      420
cacttctagg aagaagcttt ttgatacctg aananatgaa atgttcacag tngaaaggaa
                                                                      480
naanngcagt ancattteen teettgaaan gattnngttt aetcaaagga attngnnnaa
                                                                       540
ncengtanta gaaaagttte aaacetaagn eeggnaaaag aggaagagat geetggeeta
                                                                       600
aaaaaaggga aatccacnga ccatt
                                                                      625
      <210> 301
      <211> 792
      <212> DNA
      <213> Homo Sapiens
      <400> 301
aaaaantaaa ttatnttaaa aactttatta tttncnatno attttatagg gtantaaaat
                                                                       60
aatactnctn caaaatcatt taaatnttat tgatgccatt gcaaaatcat tataaataaa
                                                                       120
tttnctccat tatccaatca catctaaata acattgaata tntacaggtt nctctggata
                                                                       180
ggtaccaaaa ggtaccacnt tttatacaaa cttaattgtg aaanctgggt gaaataaatt
                                                                       240
tncaaatcaa aattttttt aantttaaat catncactct ttaaatttca aacagtgtca
                                                                       300
gtgtgacnct tacttttaaa ggaaaaaaat tagtttaaaa tttaatancc acanatttaa
                                                                       360
taatttttta ctttaacact taatgtacat tttcatganc agtaattaaa atatnttgaa
                                                                       420
attttaaatn tgaaaaattt caaagtttca gtatnttaac attacncttc aaatgttctt
                                                                       480
aatatatata taaacactta caaattataa atacaactag ttgtntntct acaatacata
                                                                       540
tntgaacacc attettette tetagecatn tttatntgan gataaagtaa taaatetetg
                                                                       600
tgctattcaa gggaaaaaaa atgaatgctt taaaaaataa atctttaaaa aataattcca
                                                                       660
aaaataaagt tcaaatattg cacaaaaata atttaactgt aaatattact ncntagtgta
                                                                       720
aacaatttta aaaaaatttt acactctaca ntaaatccnc ttctnattct ttaaaaaaat
                                                                       780
tatgggaaat cc
                                                                       792
     <210>.302
      <211> 738
      <212> DNA
      <213> Homo Sapiens
      <400> 302
aaagagtaaa ttatgttaag aactttatta ttttcgattc attttatagg gtagtaaaat
                                                                        60
aatacttett caaaateatt taaatgttat tgatgeeatt geaaaateat tataaataaa
                                                                       120
ttttctccat tatccaatca catctagata acattgaata tgtacaggtt tenctggata
                                                                       180
ggtaccaaaa ggtaccacat tttatacaga cttaattgtg aaagctgggt gaaataaatt
                                                                       240
ttcagatcaa aattttttt aagtttaaat cattcactct ttaaatttca gacagtgtca
                                                                       300
gtgtgactet tacttttaaa ggaaaaaaat tagtttaaaa tttaatagee acagatttaa
                                                                       360
```

1.125

13 73 ATT

1,349,21,513

```
taatttttta ctttaacact taatgtacat tttcatgagc agtaattaag atatgttgaa
                                                                                                                            420
attitaaatg tgaaagatti caaaggttic agtatgttaa cattactcti caaatgttct
                                                                                                                            480
taatatatat ataaacactt acaaattata gatacaacta gttgtatatc tacaatacat
                                                                                                                            540
atatgaacac cattettett eccenageca tatttatatg agggataaag taataaatet
                                                                                                                            600
ctggtgctat tcaaggnaaa aaaatggaat gccttaaaaa aataaaatcc ttaaagaata
                                                                                                                            660
ggttcaaaaa ataaagttca aaatantngc ccaaaaataa attaacnngg taatattaac
                                                                                                                            720
tacataaggg taaaacaa
                                                                                                                            738
                                  <210> 303
           <211> 635
           <212> DNA
           <213> Homo Sapiens
          <400> 303
gaacggccga gggtaacatc ccgggctcgc gggaggctgt cggggtaatg gccacacgct
                                                                                                                             60
gacagaacca geegagtgga aaaggggage gaageegtte etetgeacce tteeceagge
                                                                                                                            120
ctgaggcctt cccgcttggt gctgccgccg ccactgccgg ctgaggaggg gcgatgagtt
                                                                                                                            180
ggttcaacgc ctcccagctc tccagcttcg ctaagcaggc cctgtcccag gcccagaagt
                                                                                                                            240
ctattgacag ggttctggac atccaggaag aggagccgag catctgggcc gagaccattc
                                                                                                                            300
cgtatggaga gccgggaata agttcccctg tcagtggagg atgggatact tcaacctggg
                                                                                                                            360
ggttgaaatc aaacactgaa cctcagagtc caccaatagc ctctcctaaa gcaatcacaa
                                                                                                                            420
agccagtten gaggaetgtg gtcgatgaat etgaaaattt etteagtgee tttetetege
                                                                                                                            480
eaactgatgt ccagaccatt cagaagagtc cagtggtatc aaaacctcca ncataatcac
                                                                                                                            540
aacnaccang nagaangaan tgaaaancan cttacatgaa tccttgcaca ttggncaant
                                                                                                                            600
caagaaactt cctgaaacaa ctgaaatcac aaagt
                                                                                                                            635
           <210> 304
           <211> 847
          <2:1-2>:: DNA: 13:4-33:4-43:4-
                                                                                                                                 24227 Program
  4. <213> Homo Sapiens
                                                                                                                        The A. Laboration Roman and
   16、16、16条件的建筑效益指述。1904年(1916年)
                                                         The second of th
                                                                                                                        No. I am strategy theath in the
   14.11.44.0.0>\d3.04411.44.1744.49
                                                        14 CART -
                                                                                                                        The second section of the second
gagacggagtectttetetgt cacccatget ggagtgcagt ggcacaatet tggctcattg
taacctccac ctcccaggtt caagcaatgc tcctgcctca gcctcccgag tagctaggat
                                                                                                                            tacaggegea caccaccacg ecaggetaat tittgtatit titagtagaga tggggtitca
                                                                                                                            ccaaactgct ggccatgctg gtcttgaact cctgacatca ggtgatatgc ccgccttgqc
                                                                                                                           . 240
ctcccaaagt gctgggatta caggcatgag ccacagcacc tggccgtaaa tgagagtttt
                                                                                                                            300
tatgtgcaag taaaggcagt taaataactt tcagtaataa aatgcatcac aatatttcac
                                                                                                                            360
aggtttaaaa cacaacctgg ttaccttttt gaataaaata acatttggaa gaaggcatag
                                                                                                                            420
480
gataaatcac aaaattaaaa atgccaaatt caagttaatt cctataattc ttccattttq
                                                                                                                            540
ttatgaatat tctgtaatat caaacattca tttttaatgt gctaaaaata tgggtttaca
                                                                                                                            600
aaatatgaac aggtaatttt taaaagagta aattatgtta aagaacttta ataantttcg
                                                                                                                            660
atteatttta tagggtanta aaataatact tetteaaaat caattaaatg ttattgaatg
                                                                                                                            720
ccatttgcaa aatcattata aataaatttt cncaattatc caatcacaat tctagataac
                                                                                                                            780
attgaataag tncaaggttt ccccgggata ngttccaaaa nggtnccaca attttatnca
                                                                                                                            840
gacctaa
                                                                                                                            847
           <210> 305
           <211> 767
           <212> DNA
           <213> Homo Sapiens
           <400> 305
```

しょう マンノい えるひょう

** W ///U=#UJ

cccccttcgt ctcagctgtg cgggaacggc cgagggtaac atcccgggct cgcgggaggc

```
tgtcggggta atggccacac gctgacagaa ccagccgagt ggaaaagggg agcgaaqccq
                                                                                                                                                                                               120
                          tteetetgea ecetteecea ggeetgagge etteeegett ggtgetgeeg eegecaetge
                                                                                                                                                                                               180
                          cggctgagga ggggcgatga gttggttcaa cgcctcccag ctctccagct tcgctaagca
                                                                                                                                                                                               240
                          ggccctgtcc caggcccaga agtctattga cagggttctg gacatccagg aagaggagcc
                                                                                                                                                                                               300
                          gagcatctgg gccgagacca ttccgtatgg agagccggga ataagttccc ctgtcagtgg
                                                                                                                                                                                               360
                          aggatgggat acttcaacct gggggttgaa atcaaacact gaacctcaga gtccaccaat
                                                                                                                                                                                               420
                          agcctctcct aaagcaatca caaagccagt tcggaggact gtggtcgatg aatctgaaaa
                                                                                                                                                                                              480
                          tttcttcagt gcctttctct cgccaactga tgtccagacc attcagaaga gtccagtggt
                                                                                                                                                                                               540
                          atcaaaacct ccaacaaaat cacaacgacc aagaaagaag aagtgaaaag caacttacat
                                                                                                                                                                                               600
                          gaatcoottg cacattggcc aatcaagaac tootgaaaca actgaatcac aagtaaaaag
                                                                                                                                                                                               660
                          actecetect tgtgtgttte aaggggaaaa etetgggeaa eaaggtaett cateacetaa
                                                                                                                                                                                               720
                          aactgaaagg naaacaacga agaaaactgt ttaatnaaag aatccgg
                                                                                                                                                                                               767
                                        <210> 306
                                        <<del>211> 1659 -</del>
                                         <212> DNA
                                        <213> Homo Sapiens
                                        <400> 306
                          cccccttcgt ctcagctgtg cgggaacggc cgagggtaac atcccgggct cgcgggaggc
                                                                                                                                                                                                 60
                          tgtcggggta atggccacac gctgacagaa ccagccgagt ggaaaagggg agcgaagccg
                                                                                                                                                                                               120
                          tteetetgea eeetteeeea ggeetgagge etteeegett ggtgetgeeg eegeeaetge
                                                                                                                                                                                               180
                          cggctgagga-ggggcgatga-gttggttcaa-cgcctcccag-ctctccagct-tcgctaaqca-
                                                                                                                                                                                               240
                          ggccctgtcc caggcccaga agtctattga cagggttctg gacatccagg aagaggagcc
                                                                                                                                                                                               300
                          gagcatctgg gccgagacca ttccgtatgg agagccggga ataagttccc ctgtcagtgg
                                                                                                                                                                                               360
                          aggatgggat acttcaacct gggggttgaa atcaaacact gaacctcaga gtccaccaat
                                                                                                                                                                                               420
                          agceteteet aaageaatea caaageeagt teggaggaet gtggtegatg aatetgaaaa
                                                                                                                                                                                               480
                          tttcttcagt gcctttctct cgccaactga tgtccagacc attcagaaga gtccagtgqt
                                                                                                                                                                                               540
the which is atcassact recasessat escaegace asgassgasg asgtgassag/esaettaest.
                                                                                                                                                                                               600
was a sure programment in the second 
                                                                                                                                                                                               660
                          actecetect tgtgtgttte aaggggaaaa etetgggeaa eaaggtaett cateacetaa
                                                                                                                                                                                              720
Semilar transparation and analysis and an action and an action and an action and action action and action action and action act
                                                                                                                                                                                              1780 NOTE (NAME)
amuski se 🗻 otgtaagtiti.gaaagtatot gaaagtgtaa tigatgtgaa aacaachatgigaaagtatatee 🙃 840 estemperus e
                    ctaatacgtc tacgcagtct ctcacagcag aaacaaagga catagctttg gaacctaagg
                                                                                                                                                                                               900
                     accaaaaaca tgaagacagg cagagcaata caccttctcc tcctgttagt accttttcat
                                                                                                                                                                                               960
                           caggtactic taccaccagt gatattgaag tittagatca tgaaagtgta ataagtgaga
                                                                                                                                                                                             1020
                           gctcagcgag ctcgagacaa gagactacag attcaaaatc aagtcttcac ttgatgcaga
                                                                                                                                                                                             1080
                           catcttttca gcttctctct gcatctgctt gtcctgaata taatcgttta gatgatttcc
                                                                                                                                                                                             1140
                           aaaaactcac tgagagttgc tgttcatctg atgcttttga aagaatagac tcatttagtg
                                                                                                                                                                                              1200
                           tacagtcatt agatagccgg agtgtaagtg aaatcaattc agatgatgaa ttgtcaggca
                                                                                                                                                                                             1260
                           agggatatgc tttagtgcct attatagtta attcttcaac tccaaagtct aaaacagttg
                                                                                                                                                                                              1320
                           aatctgctga aggaaaatct gaagaagtaa atgaaacatt agttataccc actgaggaag
                                                                                                                                                                                              1380
                           cagaaatgga agaaagtgga cgaagtgcaa ctcctgttaa ctgtgaacag cctgatatct
                                                                                                                                                                                              1440
                           tggtttette tacaccaata aatgaaggae agaetgtgtt agaeaaggtg getganeagt
                                                                                                                                                                                              1500
                           gtgaacctgc tgaaagtcag ccanaancac tttctgacaa ggaanatgtt tgcaatacag
                                                                                                                                                                                              1560
                           ttgaatttct gaatgaaaaa gcnggaaaaa agggangctc agttattatc tcttagtaaq
                                                                                                                                                                                              1620
                           gaaaaagcac ttctaggaag aagctttttg atacctgaa
                                                                                                                                                                                              1659 -
                                         <210> 307
                                          <211> 831
                                          <212> DNA
                                          <213> Homo Sapiens
```

<400> 307

ctaagcattc catattggaa gaagagattt ctacacatga aaaaaatgcc tttgtttagt

and the second of the second

VAIUUJUIATUIJ

```
aaatcacaca aaaatccagc agaaattgtg aaaatcctga aagacaattt ggccattttg
  gaaaagcaag acaaaaagac agacaagget teagaagaag tgtetaaate actgeaagea
                                                                         120
 atgaaagaaa ttctgtgtgg tacaaacgag aaagaacccc caacagaagc agtggctcag
                                                                         180
 ctagcacaag aactctacag cagtggcctg ctagtgacac tgatagctga cctgcagctg
                                                                        240
 atagactttg agggaaaaaa agatgtgacc cagatattta acaacatctt gagaagacag
                                                                        300
 ataggcactc ggagtcctac tgtggagtat attagtgctc atcctcatat cctgtttatg
                                                                        360
 ctcctcaaag gatatgaagc cccacagatt gccttacgtt gtgggattat gctgagagaa
                                                                        420
 tgtattcgac atgaaccact tgccaaaatc atcctctttt ctaatcaatt cagagatttc
                                                                        480
 tttaagtacg tggagttgtc aacatttgat attgcttcag atgcctttgc tactttcaag
                                                                        540
 ggatttacta accagacata aagtgttggt agcaagactt cttagaacaa aattacgaca
                                                                        600
 ctanttttga agactatgag aaattgcttc agtctgagaa attatgttac caagagacag
                                                                        660
 teettaaage etgetaaggg aactgattet ggacegtean aactttgeea teaangcaaa
                                                                        720
 agtttatcaa caagccnggg gaaaccggaa acncaaggag gaacctcctt c
                                                                        780
                                                                        831
       <210> 308
       <211> 833
       <212> DNA
       <213> Homo Sapiens
       <400> 308
 ccattcaaat gtttatactc catctaccca gaacaattac agcagaaaaa ataggcacct
 ccaaagtett cccaagaatg atgactttet gaaatgacac actgtacaaa etggacaaat
                                                                         60
 gagacgactg actgtgacag gggccgggga gctcttcaag gggccgtttt cttcaagtct
                                                                        120
 cggatctgtt taatcaagta gttcttctcg tcagcgaact gctcatcatc cgtcctttct
                                                                        180
 ttttggaagc tgctcagaaa ctcaatgagt ttgggctgat tttttaacag gatctccaca
                                                                        240
 ataggetgtg ttttgtgagg actggecaca aacacettaa aaacatgaaa ggettcaaac
                                                                        300
 tggatgttgg gacttttatc ccgaaggagg ttcatcatga gtttcaggtt ctccggcttg
                                                                        360
 ctgatatact ttgtcatgat ggcaaagttg tgacggtcca ggatcagctc ccctagcagc
                                                                        420
 tttaaagact gtotottagt aacataatto toagactgaa gcaatttoto atagtottoa
                                                                        480
 aaaatagtgt cgtaattttg ttctaagaag tctgctacca acactttaag gtcnggttag
                                                                        540
 taaatccttg aaagtagcaa aggcatctga agcaatatca aatgttgaca actccacgtt
                                                                        600
 acttaaagaa atctctgaat tgattagaaa aagaggatga ntttgggcaa ntgggtcaag
                                                                        660
 tegaatanat teeteteaag cataaaeeeaaegetaa ggnaaaeegg tgggggette
                                                                        720
 aaaancentt gagggageat aaancangga tattagggat nagcacccaa ata
                                                                        780
                                                                        833
       <210> 309
       <211> 1320
       <212> DNA
      <213> Homo Sapiens
       <400> 309
gcatcaccac catccacgag gatgaggtgg ccaagaccca gaaggcagag ggaggtggcc
gcctgcaggc tctgcgttcc ctgtctggca ccccaaagtc catgacctcc ctatcccac
                                                                         60
gtteetetet etecteece tecceacet gtteecetet catggetgae eccetectgg
                                                                        120
ctggtgatgc cttcctcaac tccttggagt ttgaagaccc ggagctgagt gccactcttt
                                                                        180
gtgaactgag ccttggtaac agcgcccagg aaagataccg gctggaggaa ccaggaacgg
                                                                        240
agggcaagca gctgggccaa gctgtgaata cggcccaggg gtgtggcctg aaagtggcct
                                                                        300
gtgtctcagc cgccgtatcg gacgagtcag tggctggaga cagtggtgtg tacgaggctt
                                                                        360
ccgtgcagag actgggtgct tcagaagctg ctgcatttga cagtgacgaa tcggaagcag
                                                                        420
tgggtgcgac ccgaattcag attgccctga agtatgatga gaagaataag caatttgcaa
                                                                        480
tattaatcat ccagctgagt aacctttctg ctctgttgca gcaacaagac cagaaagtga
                                                                        540
atatecgegt ggetgteett cettgetetg aaageacaae etgeetgtte eggaecegge
                                                                        600
ctctggacgc ctcaagacac tctagtgttc aatgaggtgt tctgggtatc catgtcctat...
                                                                        660
ccaageeett caccaagaag acettaagag tegatgtetg taccacegae aggageeate
                                                                        720
tgggaaaagt gootgggagg ogcocaaatn agootggogg aggtotgoog gtotggggga
                                                                        780
```

840

<210> 311 <211> 546 <212> DNA <213> Homo Sapiens

ggggttaaccmarmacklesses see a line of the see and a see

<400> 311 .

gtttctgttt tcagaagaat tgggaaaact tctgtgaaag aagaatgcag aaacaaagaa 60 atatgaagtc ttgggagtat actgattaaa aagcacacat tgggagtgat agtaagaaga 120 gctaaaataa aaagcacaga aggaaaaaat aattgatttg tacataagct aaattataat 180 tcctttaaaa ttgtttataa caagatggaa tacagaatga cgattagatt tataacgtgt 240 gtttatatga atatgttgtt aacagtgaga tttctgatat ggtataacaa agtatatgat 300 tggaggacct gcaaaatgta tactcgggtt gtttttcttt ttaaaaatat tgtnaaacag 360 gcaagtgagg cttaacagca ttatggttca ttacngggtt tgggntatat accttttca 420 gettetgtna tgagcaagtt gtgttttcaa teeccaettt caatgtetat gggaagggeg 480 entittgetn tgttttgttt tgtetttaaa nentittnaa aenggggaea canatggang 540 546

tecantnaagetttaaaagag ggtntaatec eetcaaaace anagetggng eettaacaag

121020 Harge Not Dates vis

- 1030account toward.

<210> 312 <211> 518 <212> DNA <213> Homo Sapiens

まみを提覧 美

4. 0.5254 2.00

1、 一、 群众突然 10。

240

1. 等效性度扩张点。

```
<400> 312
  aaaattatta ntntaaaagg ggaaataggt nggattnccn tnttnagggc aataattntg
  gggaggaatg gggtggggct nacccctgna acccatnata aacctattct nctnagggtg
                                                                                                                                   60
  ctgggaaana attggggtct ggaataaanc tncaaatggg tencengett cactaaaacc
                                                                                                                                 120
  ttggcaacta aggctcattt ttccaaaggg gttnctnang tcnnctccct ntnaaatcnt
                                                                                                                                  180
  tttattatnc cagggtggct gttgctaang cttnggtggg aaancangaa nttnctgctn
                                                                                                                                 240
  ctnetgetge tgttgetget gggeantnea agggaaaace eccegacaa actgggataa
                                                                                                                                 300
  ngtgacctgn ttgcncacnt ctngggccct attnccntac ctgncctgna aatncttccc
                                                                                                                                 360
  nctctgcccc ctttactnnt gccaannett tececeegg ttaggataaa aatteeetn
                                                                                                                                 420
                                                                                                                                 480
  aacctccnac ctttggttan cgggggtccc ctncccc
                                                                                                                                 518
             <210> 313
             <211> 660
             <212> DNA
             <213> Homo Sapiens
             <400> 313
 gecaagetgt gaataeggee caggggtgtg geetgaaagt ggeetgtgte teageegeeg
 tateggacga gteagtgget ggagacagtg gtgtgtacga ggetteegtg cagagactgg
                                                                                                                                   60
 gtgcttcaga agctgctgca tttgacagtg acgaatcgga agcagtgggt gcgacccgaa
                                                                                                                                 120
 ttcagattgc cctgaagtat gatgagaaga ataagcaatt tgcaatatta atcatccagc
                                                                                                                                 180
 tgagtaacct ttctgctctg ttgcagcaac aagaccagaa agtgaatatc cgcgtggctg
                                                                                                                                 240
 tecttecttg ctetgaaage acaacetgee tgtteeggae eeggeetetg gaegeeteaa
                                                                                                                                 300
 gacactetag tgttcaatga ggtgttetgg gtatecatgt cetatecaag ceettcacca
                                                                                                                                 360
 agaagacctt aagagtcgat gtctgtacca ccgacaggag ccatctggga aaagtgcctg
                                                                                                                                 420
 ggaggegece aaatnageet ggeggaggte tgeeggtetg ggggaaaagt egaetegetn
                                                                                                                                 480
 gtacaacctt ctcagctaca aatacttgaa gaaacaagac aangggactc aagccantgg
                                                                                                                                 540
gagtcatggg ccctggcctc angggctgcc aacaacgggc cccgtgttct ggccccgttt
                                                                                                                                 600
                                                                                                                                 660
                        STANDARD OF THE SECOND FOR
            <210× 314 manguar, assuming the control of
            <211> 516年22年(第70年37日)。
            <212> DNA $0000 - 24 00 0000 000 000 000 0000
                                                                    <213> Homo Sapiens And the contract of the con
                                                                  of the Court
           <400> 314
gaaaggccac tttattgatg gagataaaac tgaatggagt teeccacage ceteccetea
ctcatgttag tggcttnact gggcatctga gaccagcgtg gcctgtcacc cacatanact
                                                                                                                                  60
aggetgetta geccaeccag cetateacae tgecegetee aegttgggea gecaeataaa
                                                                                                                                120
aacacgtcac agctcaanaa natccgtgga tgcacctctg aatccccccc aatggtttct
                                                                                                                                180
gtgcattttt ttaatattgt acaaaatatg ttaactagga aaaattagct gtactgtgac
                                                                                                                                240
aagtgeggga egteetatta ggattaeegt eecceaggea ttaettetta ttgeagtaag
                                                                                                                                300
acctctaaaa ggtggagctg tncaaaccaa aaaaaatcta aacgatttta agaanagcag
                                                                                                                                360
caactcaata ctgctttagt tcatttaaat tttctttccc aaaaatacac tcctaaatat
                                                                                                                                420
acaaactata caatcttatt attttaatgc tggttt
                                                                                                                                480
                                                                                                                                516
           <210> 315
           <211> 677
           <212> DNA
           <213> Homo Sapiens
           <400> 315
tcagaatggc agattcagga gagagtttgt gccagaatag cattgaagaa cttgatggtg
teettacate catatteaaa catgagatae catattatga gtteeagtet etteaaactg
                                                                                                                                  60
aaatttgttc tcaaaacaaa tatactcatt tcaaagaact tccaactctt ctccactgtg
                                                                                                                                120
cagcaaaatt tggcttaaag aacctggcta ttcatttgct tcaatgttca ggagcaacct
                                                                                                                                180
```

gggcatctaa gatgaaaaat atggagggtt cagaccccac acatattgct gaaaggcatg 300 gtcacaaaga actcaagaaa atcttcgaag acttttcaat ccaagaaatt gacataaata 360 atgagcaaga aaatgattat gaagaggata ttgcctcatt ttccacatat attccttcca 420 cacagaaccc agcatttcat catgaaagca ggaagacata cgggcaagag tgcaaatgga 480 gctgaggcaa atgaaatgga aggggaaggn aaacagaatg ggntcaggca tggagaccaa 540 acacagecea etaagaggtt ggeagtgaga gttetgaaag accagtatga tgaettgtan 600 gtgttcaatc cctgggngct gattcaagaa aaataattcc acaagggtgc tattcntngt 660 ttttacaaga cntcctt 677 <210> 316 <211> 843 <212> DNA <213> Homo Sapiens <400> 316 agctttaaac attcaattta tttgtggcat ttgtacatga aaattatatg acgataacat 60 tgctttctat tctaagctag taaattgttt ctaagaaata atagattgat aaaattgcaa 120 gtcttaatac aaaggtaggt tatgaaaatg tatattaatt tgagatatag aaaagttttc 180 aaataataat gttttcaggg ttatatgcaa atagacacta aataagacaa ggtttctgca 240 aacatgatgt aacaataatg actggaactc tgaatgtgag aaattcagaa aatgaaccag 300 ctacttaaaa agcaaaaatg tgctaagtaa atttgtattt tcatggttat tctaaggaga 360 ggaggaataa tetgttgagg ttagtgeeet caageagace ccataaettt getacaeege 420___ atttaacttc tetgtgetgt tttettttaa ttttcaaaat ggaaattage tgtttcattg 480 gtgaagtgca ttgtaaaatg agagaatttt caaataatgc aattactcta tggtattctg 540 ttttaatagt aatataccca tatgaagcag gtataatgag aataaatttt gccaataaca 600 aattetgaaa tetgaanttt gtttetgetg teatagtatg aattegettt aaagananca 660 ggcaatccaa attcaacttg ctcacctgaa aacaaaatgt ccgtanatcg tgagttcata 720 taataacctc cttaatgatc ttcctgcaca naaaccaaat tcttttcaac ttggggtcaa 780 caagaaccta ttgctgaatt ttcatataaa actatttcct/gttggcagtt tcctacccc 2840 For the seek to specify production of the . . 843 1、1200年10日 (1986年1198日)。 1000 ### ## <210 > 317 Emographical services in the co-211> 835 Contract to the commence of A. 17, 7 <212> DNA <213> Homo Sapiens <400> 317 acaagacacg cetgegtagt ggtagtgeec teetgeagte ceagtetagt actgaggace 60 cgaaggatga gcctgcggag ctaaaaccag attctgagga cttatcctcc cagtcctcag 120 cttcaaaggc atctcaggag gatgccaatg aaatcaagtc taaacgggat gaagaagaac 180 gagaacgaga aaggagggg aacgagaaag agaacgggag aaggagaagg 240 agagagaacg agagaagcag aagctaaaaag agtcagaaaa agagagagat tctgctaagg 300 ataaagagaa aggcaaacat gatgatggac ggaaaaagga agcagaaatt atcaaacaat 360 tgaagattga actcaagaag gcacaggaga gccaaaagga gatgaaacta ttgctggata --, 420 tgtaccgttc tgccccaaag gaacagagag acaaagttca gctgatggca gctgagaaga 480 agtctaaggc agagttggaa gatctaaggc aaagactcaa ggatctggaa gataaagaga 540 agaaagagaa caaagaaaat ggctgatgaa ggatgccttg aggaagatcc gggcagtgga 600 gggacaagat agaataccta cagaagaagc taagccatgg gcaagcagga agaagaagca 660

<210> 318 <211> 582

<212> DNA

720

780

835

ctcctctctg aaatgggatg tcacaaggcc aagcctttga agacatgcag gagcaaaaat

atcogntttg attgcagcaa nttgccggga anaanggatg atgccaaatt ttcaaaqcc

aatgtcaaaa gccgttttca agttccaaat ccagnttcat naagnttgcc ttaaa

<213> Homo Sapiens

```
<400> 318
  caaactgaat cctgctttaa ttcaagcttg nggagaacaa agtcctacag aaacattcca
  nanaattttc nggaaaagag ggatcacaac aaccctgtaa aaaggagact ganagtaatt
                                                                         60
  canageteae caagttenen eegtateaaa ttteeanaat aeeeacaaga tttetteaee
                                                                        120
  anctcantcc tgactcaacc tcttcaatct ttanttcatt agaagacaaa gggtcanatt
                                                                        180
  atttaaaatt antcnantcc caagaaattt aaagacttga agtagtagag cattcaaaac
                                                                        240
  ttaaataact ttaacaagaa agccanctga tcttaacaag ttacncngcn antaaatggg
                                                                        300
  aaatagactg aatcanccta nacataattt cattagggnt gcaaaccacc cangggaaag
                                                                        360
  tagcacaatt ataccanttt gtaatccaca ttcacaagaa gtttgcnaca caaatgaaga
                                                                        420
  aaactttgng cccatagaca acttatttt taaaatatca ctccccaaaa gtagccatgt
                                                                        480
  ttccactttt ggtccccttt ccanatcaaa aataccaact tg
                                                                        540
                                                                        582
       <210> 319
       <211> 827
       <212> DNA
       <213> Homo Sapiens
       <400> 319
 gaagccattc gatgttcatc agattggcca tttcagccat accttgtgtt tgatgttgga
 gatggttcag aaagacggga taatgactca tatataaatg ttcaagaaat aaaactggtg
                                                                         60
 atggaaataa ttaagcttat taaagacaaa agaaaggatg ttagttttcg aaacattggc
                                                                        120
 ataataactc attacaaggc ccagaagacg atgattcaga aggatttgga caaagagttc
                                                                        180
 gatagaaaag gaccagcaga agtagacact gtggatgcat tccagggtcg gcagaaggat
                                                                        240
 tgtgttattg ttacgtgtgt cagagcaaat agcatccaag gttcaattgg attcctggca
                                                                        300
 agtttgcaga gattgaatgt caccatcaca cgagccaagt acagcctctt catcctcgga
                                                                        360
 catttgagga ccctgatgga aaaccagcat tggaatcagc tgattcagga tgctcagaag
                                                                        420
egtggtgcca ttattaagac etgtgacaaa aactatagac atgatgcagt gaagattetg
                                                                        480
aaactcaagc ctgtgctgca gagaagtctc actcancctc ctaccatagc cccaaagggg
                                                                        540
 tccaaacccc aagggtggnt tgcccaagca ncaagctaga cagttggatt ttgccaaaga
                                                                       .600
caateetggt tgeeggette tecaataeea aaacaaceet eeggaeteee aagggaaaat
                                                                        660
 tacncctaac ggtttacctt caaagggacc ctgaaaagac ccncctggtt caatgaccaa
                                                                       720
 entteanggg neceaegaan tggetgaaaa agggatggge aatttag
                                                                       780
                                                                        827
       <210> 320
       <211> 598
       <212> DNA
       <213> Homo Sapiens
      <400> 320
aaattttaaa aggattttgt tatttgctat acaaatatac atttcaactt ttacaacatt
cactccagtc tgacctcctt gtctatagaa gactaagaga tcaacatttc cagtctctga
                                                                        60
cttcaaggac attattacgg atacacaatg ccctctgaaa gcttttgcaa atgacagaaa
                                                                       120
atactgaaga tgaccagagg ctcaggtgtt aaggatgcat tttccatgtt ttccaacagc
                                                                       180
acacaaacte ettacaaaaa acaagettat etagatggte ecaegagetg gteatettea
                                                                       240
gtttacaata tgctgtggct gctggcccat gtcactgggc tttcctataa aagctttctt
                                                                       300
ttcttgggaa ctgctgtcct cctgctccaa gtgtcctctt gtcccaccta gagttcctcc
                                                                       360
tggtgtgatg ggtctcggaa ccacacttct cctgctcccc ttcactgaaa gccctggcct
                                                                       420
ctetectgtg acagagetee tetteegggt cateacattt getetgacae gtgggnagee
                                                                       480
teggggaact gggcanetgg gaggnteegt ttttttttgg gaaggtttgt tggetgee
                                                                       540
                                                                       598
```

エーエノししノい・エマリノ

<210> 321

<211> 808.

<212> DNA

1 -11-00-0012-01-

and the second of the second o

720

780

<213> Homo Sapiens

	_						
	<400> 321						
	gcatcaccac catccacgag	gatgaggtgg	ccaaqaccca	gaaggcagag	ggaggtggcc		60
	gcctgcaggc tctgcgttcc	ctgtctggca	ccccaaaqtc	catgacetee	ctatececae	٠,	120
	gttcctctct ctcctcccc	tccccaccct	gttcccctct	catggctgac	cccctcctaa		180
	ctggtgatgc_cttcctcaac	tccttggagt	ttgaagaccc	ggaggtgagt	gccactcttt		240
	gtgaactgag ccttggtaac	agcgcccagg	aaaqataccq	gctggaggaa	ccaddaacdd		300
	agggcaagca gctgggccaa	gctgtgaata	caacccaaaa	gtgtgggdd	aaagtggcct		360
	gtgtctcagc cgccgtatcg	gacgagtcag	taactaaaa	cagtggtgta	tacgaggett		420
	ccgtgcagag actgggtgct	tcagaagetg	ctgcatttga	cagtgacgaa	tragaggeee		480
	tgggtgcgac ccgaattcag	attqccctqa	agtatgatga	gaagaataag	caatttqcaa		540
	tattaatcat ccagctgagt	aacctttctg	ctctqttqca	ncaacaaaga	ccacaaactc		600
	aatatccgcg tggctgtcct	teettgetet	gaaaagcaca	aactgcctgt	tecagaacce		660
	gggctctgga cgcctcaaac	actccaagtg	ttcaatgaag	gtattetaga	tatccatoot		720
	ccctatccaa accenttaac	aagaaagacc	tttaaanaag	tocaatotoc	ngtnaccaac		720 780
	cggacaaggg agccaatctt				gemacedae		808
	333 .5.	555				1	000
	<210> 322						
	<211> 629						
	<212> DNA						
_	<213> Homo Sapie	ens					
	<400> 322		,				
	agcaaaataa atgtcactat	atcaagataa.	agaataacat	taggtgtgaa	ctagcatagg		60
	tgattcatgg gaaacgaaat	ggcaaattcg	aaaggaattc	tgggaaccat	cgtactaggt		120
	tacattgcct ttttgcctgt	agagaaccca	tgaggagagg	ggttctcagc	cttcccagtg		180
	gaaccettet ettagttgea:	ctggcattgg	gggatctcat	tgctgggcct	aggtccaggc		240
	agggcagete etggggceca	agggcgggct	cactcaccag	ctgtcttcca	gtgtctgtgt		300
	getgeteetg ceeteetgee	tcttctccaa	ctccactgct	gtctgttcca	acagagcaag		360
	acacagegte egtgetggea	ngccctgaag	caagggccat.	gactcccact	ggcttgagct		420
	ccctgctctg tttcttcaag	tattttgtan	ctgagaaagt	tgtaccaanc	gaatcnacct		480
	ctccccaaga ccgggaagac	ctcccgccaa	ggctgatttg	gggcgcctcc	caagcactct		540
	tccaaaatgg ctcccgtccg	ttgggacana	catccnactt	tttaangcct	tccggggnaa		600
	agggctgggn taaggacatt	gggtncccc					629
	.210. 222						
	<210> 323						
	<211> 798 <212> DNA		4				•
	<212> DNA <213> Homo Sapie						
	(213) Homo Sapie	5115					
	<400> 323						
	aacatttctg tgatcaacat	tacttactac	atttataata	+a>>a>>a>			
	tgacaactca gaaaggacct	gaaaacttac	attatoatoa	ccaacaaaat	gageecaaca		60
	ccaaaatgac aggttcagca	ccaccccctt	ctccaacaca	tagagagaga	acatetegaa		120
	aagcagitct ttgcaaacct	ttaacaatca	Caaaaaataa	ttaacaaagag	atgaagaaca		180
	agaccaaatc ttgtcagaca	gatgatactt	adadascada	atatottoo	atacatate=		240
	ctgtgcctgt gtatatccca	gttcctatcc	acatotacaga	trarantate	gradetated		300
	ctacagttcc tgttcctgtg	ccagttcctc	tttttataaa	tactactte	cougetocta		360
	agaagattcc tgcagcaatt	gaggaggtaa	aaaaaaaaa	ttetteses	yacagcagtg		420
	cagagttget tacaatgacg	gatatgatga	atassassas	agggaaaaa	golottgata		480
	acatcaacag tgtaattatt	gasacacata	taattootto	yyyyaaaaca	yayacaacca		540
	acccagagac acagtccage	atocctoato	taccatatos	agaddittig	aayaactctg		600
	tagattttcc cagagetget						660

tagattttcc cagagctgct gaaggagcct tgatatggga aaatgaattt ttattaccaa

congtitute ggogaaagaa tatgaaggaa caagcocaaa cotogattot aaaaaaaagg

ggagccaagg agaaaagg 798 <210> 324 <211> 754 <212> DNA <213> Homo Sapiens <400> 324 aaaaggacac taaggtttta ataaggggaa caaaaaattg ttttcaccag catagattca 60 cattacagta caccaatatt gacagcattc tcttgtctat ttttggtaca gaagatggta 120 180 ccccaaaaca aaacaaaaac cccagcctat tagtttacag tttattttaa aaattccgaa 240 agacactgca agttctaaac ttttagtagt gctacccata cacaaccatc tggttaagaa 300 cccagtaaaa gagccccctt ccaaggaagc tttgcaacag tagagttgtg caatatggat 3.6.0_ gtttcttact acaagaaaaa aattatacat ggcacattct cattcatatt ctgtaatgta 420 aaaagttaca aacataccta atcaaataaa taataataaa aaaagaattt gaatgtattt 480 gttaagtatc ctaaaaccac tacatagaat aatggcaact ttcactcaca gattatttac 540 atggtaatac ccagcgtggg tacactgcta caaaactcaa aacagaagga gtaaacttga 600 aatgttttcc ataataaaga tctagcanca tgactatcct aatgccgttt tatcccgaat 660 gcttctggca acgttccctt ttaatccggt gtctcatcca attcaaaaan tggcctttac 720 caaaaaatat ccttttacaa gaaagaaacc cgtt 754 <210> 325 <211> 854 <212> DNA <213> Homo Sapiens <400> 325 5 1.83 1 A ggtcaggggt gagagctgga atctctgcac gggccttgga aaacgactgt cttcttctgc 👙 60 caaaatgtca ggaattggaa ataaaagagc agctggagaa cctggcacct ccatgcctcc 120 tgagaagaag gcagctgttg aagattcagg gaccacagtg gaaacaatta agctaggagg tgtetettea aeggaggaac tagacattag aacaetgcaaraccaaaaatc gcaagetgge 2002240 ः अagaaatgttg gatcagcggc aggccattga agatgaactt ecgtgagcaca: ttgaaaaact; कालाब300 ggaacgacga caggccactg atgatgcctc actattgatt gtcaaccgat actggagtca 360 gtttgatgaa aacatccgta tcatccttaa acgttatgat ctggagcagg gcttgggaga 420 cctactcaca gaacgaaaag cccttgttgt gcctgaacca gaaccagact ctgatagcaa 480 tcaggagcgt aaagatgacc gagagagagc agttccagtg aagagatgga gtctcagctg 540 caggaacgtg tggagtette eegeegagee gtgteecaga ttgtgaetgt ttatgataaa 600 ttgcaagaaa aagtggagct cttatcccgg gaagctaaac agtgggagat aatctgatag 660 tggagggaag canttgcaag gagctgaact ctttcctcgc acaaggagaa tattaaggct 720 acanggaatt gacaagatct tcctcaggaa aaagcatcgc aaccatggtc tcaaggngtt 780 cctccaaagt tgcaagaggt aaaattgggg naaaagccga attcaccaan tttccggtcc 840 tggaagtcca anga 854 <210> 326 <211> 760 <212> DNA <213> Homo Sapiens <400> 326 caaactgaat cctgctttaa ttcaagcttg tggagaacaa agtcctacag aaacattcca 60 cagaattttc tggaaaagag ggatcacaac aaccctgtaa aaaggagact gagagtaatt 120 catageteae caagttetet eegtateaaa ttteeagaat acceacaaga tttetteaee 180 ageteagtee tgaeteaace tetteaatet ttattteatt agaagacaaa gggteatatt

atttaaaatt attctagtct caagaaattt aaagacttga agtagtagag cattcaaaac

240

300

THE STATE

\$12% \$150 h

54 55 DV

SECTION

· . .

```
ttaaataact ttaacaagaa agccagctga tcttaacaag ttactctgct agtaaatggg
                                                                                                                         360
aaatagactg aatcatccta gacataattt cattagggct gcaaaccacc caggggagag
                                                                                                                         420
tagcacaatt ataccatttt gtaatccaca ttcacaagaa gtttgctaca caaatgaaga
                                                                                                                         480
aaactttgtg cccatagaca acttattttt taaaatatca ctccccaaaa gtagccatqt
                                                                                                                         540
ttccactttt gttccctttt ccacatcaaa aataccaact tgatttcttc aggaggaatg
                                                                                                                         600
gacaatccaa gtttatacaa gtgggctggg aaaaagaaaa cactgaaaaq tctaaaagca
                                                                                                                         660
caagataaaç aaagcctggg aagggaagac agttaagagt tatttgtttc caantcaatc
                                                                                                                         .720
cnaaaaccca anggcttgta attaacaagt cctttccggc
                                                                                                                          760
          <210> 327
          <211> 852
          <212> DNA
          <213> Homo Sapiens
          <400> 327
caaagcagtt ctttgcaaac ctttaacaat gacaaaagct acttactgta aacctcacat
                                                                                                                           60
gcagaccaaa tettgtcaga cagatgatae ttggaggaca gaatatgtte cagtgeetat
                                                                                                                          120
ccctgtgcct gtgtatatcc cagttcctat gcacatgtac agtcagaata ttcctgttcc
                                                                                                                          180
tactacagtt cctgttcctg tgccagttcc tgtttttctg cctgctccat tggacagcag
                                                                                                                          240
tgagaagatt cctgcagcaa ttgaggagct aaaaagcaag gtttcttcag atgctcttga
                                                                                                                          300
tacagagttg cttacaatga cggatatgat gagtgaagac gaggggaaaa cagagacaac
                                                                                                                          360
caacatcaac agtgtaatta ttgaaacaga tataattggt tcagaccttt tgaaqaactc
                                                                                                                          420
tgacccagag acacagtcca gcatgcctga tgtaccatat gaaccaagat ttqqatatcq
                                                                                                                          480
aaatagattt tcccagagct gctgaggagc ttgatatgga aaatgaattt ttattaccac
                                                                                                                          540
ctgtttttgg cgaagaatat gaggaacagc ccaagacctc gatctaaaaa aaaagggagc
                                                                                                                          600
caagagaaan gctgtatcaa ggataccaag tctcatgatg ataagtctga caatttcaga
                                                                                                                          660
atgeagentt cettteaaat tataegtatg ggegtaaatg catgggnaac acegggteaa
                                                                                                                          720
aaactaagnn acttggatga aagatcntcc gggnaattag aatgagttaa aatccttcca
                                                                                                                          780
aatccantna agtttaaaag agggtntaat cccctcaaaa ccanagetgg ngccttaaca
                                                                                                                          840
agggggttaa cc
                                                                  THE DESCRIPTION OF STREET
                                                                                                                          8.5.2
                                                                   一点,其一种特殊的特殊基础的现在分词是
    · /6 <210> 328
                                                                 The second of the second secon
   <211> 799
                                                                        TO STANDARD FOR STREET CASE, CARRY
           <212> DNA
                                                                                <213> Homo Sapiens
                                                                                43 34 35 35 35 3
           <400> 328
 aaaaggacac taaggtttta ataaggggaa caaaaaattg ttttcaccag catagattca
                                                                                                                            60
cattacagta caccaatatt gacagcattc tcttgtctat ttttggtaca gaagatggta
                                                                                                                           120
180
ccccaaaaca aaacaaaaac cccagcctat tagtttacag tttattttaa aaattccgaa
                                                                                                                           240
agacactgca agttctaaac ttttagtagt gctacccata cacaaccatc tggttaagaa
                                                                                                                          300
cccagtaaaa gagcccctt ccaaggaagc tttgcaacag tagagttgtg caatatggat
                                                                                                                           360
gtttcttact acaagaaaaa aattatacat ggcacattct cattcatatt ctgtaatgta
                                                                                                                           420
 aaaagttaca aacataccta atcaaataaa taataataaa aaaagaattt gaatgtattt
                                                                                                                           480
gttaagtatc ctaaaaccac tacatagaat aatggcaact ttcactcaca gattatttac
                                                                                                                           540
 atggtaatac ccagcgtggg tacactgcta caaaactcaa aacagaanga gtaaacttga
                                                                                                                           600
 aatgttttcc ataataaaga tctagcaaca tgactatcca atgctgtttt atcccgattg
                                                                                                                           660
 cttctgcaac gttcctttta atccgtgtct catccagttc anaantgtcc ttatcaanaa
                                                                                                                           720
 taacctttac tagaagaaac cgtncaagca tattttcaan gggtttccgg tccaattgaa
                                                                                                                           780
 gttanacgtn taccaaaca
                                                                                                                           799
```

<210> 329

<211> 978

<212> DNA

<213> Homo Sapiens

	\213	> nomo sapi	ens					
	<400	> 329						
			ccacaaaa	Cataasaast				
	agetgeecaa	gaaggacatt	atcaactttc	tacaggacege	ggagcagetg	cgcagtgagc tcgtttcttg	60	
	cagaacataa	attattagga	aacattaaaa	atatagaaaa	cggttcanat	aaggaccact	120	
	tagttacage	ctataaccat	ctttttgaaa	actaageett	gacagetaae	tgaaagtata	180	
	agtaaagtgt	ctgaggaagt	aaaaaatgtg	accaagegee	ccaagggtac	ccaaagtata	240	
	caagtotgaa	gagaccctgg	atgagggtcc	CCCasastat	gaagacaaac	gttctgaaaa	300	
•	aggagataa	aaccaacttt	cccaaaaaaa	gagatgttgt	toostoot	tatacaggaa	360	
	cactacaaga	toggactott	tttgatacta	atattoaaa	ccaccgetgg	aagaagaaaa	420	
	atgccaagcc	tttaagtttt	aaggtcggag	tagggaaagt	tataaaaaa	tgggatgaag	480	
	ctctcttgac	tatgagtaaa	aasassaaa	ctccactcca	cattanaga	gaatgggctt	540	
	acggaaagaa	aggacagcct	gatgccaaaa	ttccnccaaa	tagaaaaa	gaatgggett acttttgaag	600	
	tggaattagt	ggatattgat	tgaaatagca	gtacttcage	totaagate	ttagcaacaa	660	<u> </u>
	tgataaaact	tggccttgaa	gaaatttacn	caactactta	cccaaggata	ctattgtaaa	720	
	ggaagagtca	actogaaaat	tcaaggagtt	aataaaattt	gaactigtta	tcccagcttt	780	
	tgagagataa	atcccttato	aatccctggt	ctasastact	ttattage	tgtgtaaaat	840	
	actggtcaag	gagaactttt	teettttaee	tratattata	ccectacage	gctcaataaa	9.00	
	aattgatccn	ctatetta		ccatguigua	aacttaagtg	gctcaataaa	960	
	3	55					978	
	<210	> 330						
		> 1017						* * *
		> DNA						
		> Homo Sapie	ens ·					
	<400	> 330						
	cgatcggcgg	agctcccacc	tccqcttaca	actcactacc	accat cetae	cccgcgcccc		
TERMINER, OTTO	caggagacct	ggaccagacc	acgatgtgga	aacqctqqct	cacacticaca	etegegetgg	60	
13440 - 23 - Jane	tggcggtcge	etgggteege	gccgaggaag	agctaaggag	caaatccaac	atctgtgcca		
$g_{\mathcal{A}_1 \mathcal{V}_2 \mathcal{H}_2 \mathcal{A}_3}$.	atgtgttttg	tggageegge	cgggaatgtq	cagtcacaga	gaaaggggaa	cccacctgtc		er e er e de de la company br>La company de la company d
March Carlot	tctgcattga	gcaatgcaaa	cctcacaaga	aacctatata	togcagtaat	ggcaagacct	240	
37,322774, 11, 57,	acctcaacca	ctgtgaactg	catcgagatg	cctqcctcac	tggatccaaa	atccaggttg		ran njibaba
	attacgatgg	acactgcaaa	gagaagaaat	ccqtaaqtcc	atctgccage	ccagttgttt		P. Et page.
	gctatcagtc	caaccgtgat	gageteegae	gtcgcatcat	ccagtgggtg	gaagetgaga	420	
*	tcattccaga	tggctggttc	tctaaaggca	gcaactacag	tgaaatccta	gacaagtatt	480	
	ttaagaactt	tgataatggt	gattctcgcc	tggactccag	tgaattcctg	aagtttgtgg	540	
	aacagaatga	aactgccatc	aatattacaa	cqtatccaga	CCaggagaac	aacaacttcc	600 -	
	ttaggggact	ctgtgttgat	gctctcattg	aactqtctqa	tgaaaatggt	gattggaaag	660	
	tcagcttcca	agagtttctc	aagtgcctca	acccatcttt	caaccttct	gadaadaadt	720	
	gtgccctgga	ggatgaaacg	tatgcagatg	gagetgagae	cgangtggac	tataacccc	780	
	tgtgtctgtg	cctgtggaaa	ttgggtctgt	caqccatqac	ctataacnaa	aagaatcaga	840	
	agggggccca	gacccagacn	gaggangaga	tgancngata	tatacaggag	Ctccasage	900	
	taggaaacag	cttgaaaaga	nccagagagg	gagececaa	agagattatg	addaddd	960	
		_			Juguetueg	uggagge .	., 1017	
		> 331						
	<211>	> 799						
	<212>	> DNA						
	<213>	Homo Sapie	ens	•	•			
	<400>	331						
	cccagaaaga	tcatcacagt	ttctgtaaaa	gaagatgtac	acctgaaaaa	ggcagaaa+	60	
•	gcctggaagc	caagccaaaa	acgagacagc	caagccgatg	atcccgaaaa	cattagaacc	60 120	
	caggagcttt	ttagaaaagt	tcgaagtatc	ttaaataaat	tgacaccaca	gatgttcast		
	~~~~~~~~					gaaaggagtt	180	

caactgatga agcaagtgtc aggacttact gttgacacag aggagcggct gaaaggagtt

```
attgacctgg tetttgagaa ggetattgat gaacccagtt tetetgtgge ttacgcaaac
                                                                      300
atgtgtcgat gtctagtaac gctgaaagta cccatggcag acaagcctgg taacacagtg
                                                                      360
aatttccgga agctgctact gaaccgttgc cagaaggagt ttgaaaaaga taaagcagat
                                                                      420
480
acaaggette atgatgaact ggaagaagee aaggacaaag ceeggeggag atceattgge
                                                                      540
aacatcaagt ttattggaga actctttaaa ctcaaaatgc tgactgaagc catcatgcat
                                                                      600
gactgtgtgg tgaagctgct aaagaaccat gatgaagaat ccctggagtg cctgtgtcgc
                                                                     660
ctgctcacca ccattggcaa agacttggac tttgaaaaaa gccaaagcca cgtatggacc
                                                                      720
cagtacttta atcagatgga gaaaattgtg aaaggaaaga aaaacctcat ctaggatcgg
                                                                      780
gtcatgcttt caggaggtt
                                                                      799
      <210> 332
      <211> 881
      <212> DNA
      <213> Homo Sapiens
      <400> 332
cgatcggcgg agetcccace tecgettaca getcgetgce geegteetge eeegegeeee
                                                                       60
caggagacet ggaccagace acgatgtgga aacgetgget cgcgctcgcg etcgcgctgg
                                                                      120
tggcggtcgc ctgggtccgc gccgaggaag agctaaggag caaatccaag atctgtgcca
                                                                      180
atgtgttttg tggagccggc cgggaatgtg cagtcacaga gaaaggggaa cccacctgtc
                                                                      240
tetgeattga geaatgeaaa eeteacaaga ggeetgtgtg tggeagtaat ggeaagaeet
                                                                      300
acctcaacca ctgtgaactg catcgagatg cctgcctcac tggatccaaa atccaggttg
                                                                      360
attacgatgg acactgcaaa gagaagaaat ccgtaagtcc atctgccagc ccagttgttt
                                                                      420
gctatcagtc caaccgtgat gagctccgac gtcgcatcat ccagtggctg gaagctgaga
                                                                      480
tcattccaga tggctggttc tctaaaggca gcaactacag tgaaatccta gacaagtatt
                                                                      540
ttaagaactt tgataatggt gattetegee tggaeteeag tgaatteetg aagtttgtgg
                                                                      600
aacagaatga aactgccatc aatattacaa cgtatccaga ccaggagaac aacaagttgc
                                                                      660
ttaagggact ctgtgttgat gctctcattg aactgtctga tgaaaatgct gantggaaac
                                                                      720
ttagetttea agaagtttet caagngeettenaacceatet ttnaacctte ttgagaagaa
                                                                      780
tgtgcccttg gaggatgaaa cgtatgccan atggagcttg aaancgaggt ggactgtaan
                                                                      840
cogttggnot gggnoctggg gaaaattgggttcttggacaatg
                                                                      881
                         p. 是中國國際等。如此在19世紀世紀於
      <210> 333
                              \mathbf{s}_{i} = (1, \dots, 1, \dots, 1, \dots, 1)
      <211> 810
      <212> DNA
      <213> Homo Sapiens
      <400> 333
gtgcagtcac agagaaaggg gaacccacct gtctctgcat tgagcaatgc aaacctcaca
                                                                       60
agaggeetgt gtgtggeagt aatggeaaga eetaeeteaa eeaetgtgaa etgeategag
                                                                      120
atgeetgeet caetggatee aaaateeagg ttgattaega tggacaetge aaagagaaga
                                                                      180
aatccgtaag tccatctgcc agcccagttg tttgctatca gtccaaccgt gatgagctcc
                                                                      240
gacgtcgcat catccagtgg ctggaagctg agatcattcc agatggctgg ttctctaaag
                                                                      300
gcagcaacta cagtgaaatc ctagacaagt attttaagaa ctttgataat ggtgattctc
                                                                      360
geetggaete cagtgaatte etgaagtttg tggaacagaa tgaaactgee atcaatatta
                                                                      420
caacgtatcc agaccaggag aacaacaagt tgcttagggg actctgtgtt gatgctctca
                                                                      480
ttgaactgtc tgatgaaaat gctgattgga aactcagctt ccaagagttt ctcaagtgcc
                                                                      540
tcaacccatc tttcaaccct cctgagaaga agtgtgccct ggaggatgaa acgtatgcag
                                                                      600
atggagetga gacegangtg gactgtaace egetgtgtet gtgeetgtgg aaattgggte
                                                                      660
tgtcagccat gacctgtgac ngaaagaatc agaaggggc ccagacccag acngaggang
                                                                      720
agatganeng atatgteeag gageteeaaa gettaggaaa cagettgaaa aganeeagag
                                                                      780
agggagcccc caaagagatt atgaggaggc
                                                                      810
```

540

```
<211> 808
      <212> DNA
      <213> Homo Sapiens
      <400> 334
cactttaatt tetttattca teaatagtat eegaaaagga agaateagga gttacaaaaa
                                                                     60
caagttaaat gcaatataga agcctactaa atacaaatac aagttcacaa acacatatgc
                                                                    120
aacagaaact tgtttagatt gtttcttgaa gtttgactac ttaaaaacat aggtgtaaag
                                                                    180
gaaagacatt cagactggtc cacgtgggct tgttagcagg cagaggaacc ctgctttcca
                                                                    240
aaaactgata tagtccagag tcacggcatg tgggaatgtt tccatggaca ctggatctta
                                                                    300
acagatgeta tagtgtttac aaaactacac acacagagaa agcccaagga agcctgcagg
                                                                    360
ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgtttg
                                                                    420
ctccatgcaa aactttatgg aagactcccc agactaggct atttagcagc ttccatgaat
                                                                    480
ggtcctcaga tcatgtgatt ctacggcata gacgacagct gccctattta cacagaagct
                                                                    540
gcagaactca agaggaatgt ggatttgctc ttgggaagtt caatgttgca gggtaaagta
                                                                    600
agtettggat gataaccatg ttetaaatga etagtgaaga gacaetgngg tttettgett
                                                                    660
ttaacaaatt ggnggactct tggcccttct tcccatagng tccaagggct ggtaaaacct
                                                                    720
ttggattaag gcgtgnctgc ttgggagttc ttccaaggca ctttggacca gggaacctgc
                                                                    780
atttcaaact ggaccaagtg gaggtttg
                                                                    808
      <210> 335
      <211> 758
      <212>-DNA-
      <213> Homo Sapiens
      <400> 335
gcaattgggt atctcgaaga gcagatcaag ggcctaaaac tatcgaacag attcacaaag
                                                                     60
aggctaaaat agaagaacaa gaagagcaaa ggaaggtcca gcaactcatg accaaagaga
                                                                    120%
agaacagtog agtactggac coctcaaaat toctaaaaat cactaagcot acaattgatg 11.4240 cog para tock
aaaaaattca: gotggtacct, aaagcacagc taggcagctg gggaaaaggc agcagtggtg
                                                                 14.3000Ear (#1.5) the
gagcaaaggc aagtgagact gatgccttac ggtcaagtgc ttccagttta aacagattct 3000 36000 aacagattct
etgecetgea accteaggea eceteagggt ecaegecate caegectgta gagtttgatt - 10.420 eq atomos
cccgaaggac cttaactagt cgtggaagta tgggcaggga gaagaatgac aagccccttc
                                                                    480ga.
catctgcaac agctcggcca aatactttca tgaggggtgg cagcagtaaa gacctgctag
                                                                    acaatcagtc tcaagaagag cagcggagag agatgctgga gaccgtgaag cagctnacan
                                                                    600
gaggtgtgga tgtggagagg aacagccttg agctgaaccg aaataaacaa gggagtcagc
                                                                    660
aaaaccccga aanttcagca atgtcagctt attgacaagg gttgattatc agaagaggac
                                                                    720
tgganaggaa gtccaaatct atcatggtna atttttc
                                                                    758
      <210> 336
      <211> 785
      <212> DNA
      <213> Homo Sapiens
      <400> 336
aaacttgcaa tgtttgtctt tattttgttc tttatatttt caaagtgaaa agaaatagta
                                                                     60
ctgagtcaat ttcttttgt ttttttaaat atttgttcta tgtatttaca agccttaaag
                                                                    120
ttgctctaaa gatttcaaga gtattaagag tacttttctc agggtagcac tttttttt
                                                                    180
tttaaacaat tettggagtt etgtggteea eageatttee ttetgtttea atgttatgta
                                                                    240
cgttttgatt actattgnga ttttttaaat tttctgaagc aagctgagag gcaggcagaa
                                                                    300
agatttgatg ccaaaaaaaa aaaaatcttt cttaccttgt tcaccccaaa ctttctcaaa
                                                                    360
tetggaetaa atgetataee ttaaaacaaa catgaggnge atettgaagg ggagggaaat
                                                                    420
ttatttctct gcttttctat tatacaagtt gtttacagaa actgcaaatt aaaaaattac
                                                                    480
```

actggcattt gcagtcctta aaataaatta aaagttctca acttttttt ttttgctaaa

マヤ ひ ッフ/ひやんひご

```
cattttttta agtatgagtc cttgtttaaa aagaaaagat taaaacagaa aatattttct
                                                                     600
ataaatacnt gnattttggg tttaagggct cccgccctaa ggnttgaagg ttacttttat
                                                                     660
eccaggacce titticetee atggaaccee tittittene titteeettt teccaetteg
                                                                     720
ngccncccnt ngggggtttc tggcaaaaaa tggcccttgc tgcnctgggg aattggccaa
                                                                     780
aaacc
                                                                     785
      <210> ·337
      <211> 643
      <212> DNA
      <213> Homo Sapiens
      <400> 337
ggaagatggc ggcggccgtt ccacagcggg cgtggaccgt ggagcagctg cgcagtgagc
                                                                     60
agetgeecaa gaaggacatt ateaagttte tgeaggaaca eggtteanat tegttettg
                                                                     120
cagaacataa attattagga aacattaaaa atgtggccaa gacagctaac aaggaccact
                                                                     180
tggttacage ctataaccat ctttttgaaa actaagegtt ttaanggtac tgaangtnta
                                                                     240
nntaaagtgt ctgancaagt naaaaatgnn aancttantg aagataancc caaagaaacc
                                                                     300
aagtntgang agaccetgga tgagggteea cenaaatata etaaatetgn tetgaaaaag
                                                                     360
ggagataaaa ccaactttcc caaaaaggga gatgttgttc actgctggta tacaggaaca
                                                                     420
ctacaagatg ggactgtttt tgatactaat attcaaacaa gtgcaaagaa naagaaaaat
                                                                     480
gccaagcctt taagttttaa ggtcggagta cgcaaaagtt atcanaggat ggggatgaag
                                                                     540
ctctcttgac tatgagtaaa ggagaaaagg ctngactgga aaatggaccc aaaatggctt
                                                                     600
accggaaaga aagggacagc ctgatnccaa aatttcccca aat
                                                                     643
      <210> 338
      <211> 831
      <212> DNA
      <213> Homo Sapiens
                     医阿斯林氏征 調的 经证券基础的
     caagacagng gatcaattttttattgagcca.ottaagttta caacatgagg taaaaggaaa
                                                                      60
aagttotoot tgaccagtat tttacacago tgtaggaaag tattttagac cagggattca
                                                                     120
taagggattt atctctcaaa agctgggacc aagtaaacaa attttattaa ctccttgaat
                                                                     180
tttccagttg actcttcctt tacaatagta acaagttcta actagttgng taaatttctt
                                                                     2.40
caaggccaag tittatcatt gitgctaata teettagage igaagcacig ciatitcaat
                                                                     300
caatatecae taattecaet teaaaagtga gttttgeatt tggnggaatt ttggeateag
                                                                     360
getgteettt ettteegtaa geceattetg gtteaatete eagtegagee tttteteett
                                                                     420
tactcatagt caagagaget teateceate etetgataae tttgeetaet eegacettaa
                                                                     480
aacttaaagg cttggcattt ttcttcttct ttgcacttgt ttgaatatta gtatcaaaaa
                                                                     540
cagteceate tigtagigtt ecigtatace ageagigaac aacateteee tittigggaa
                                                                     600
agttggtttt atctcccttt ttcagaacag gatttagtat attttggggg accctcatcc
                                                                     660
agggtetett cagaettggt ttetttgggt ttatetteat ttaagettea catttttae
                                                                     720
ttgctcagac actttactta tactttcagt accettaaaa eegettaagt ttcaaaaaag
                                                                     780
agggttatag getgnaacce aaggggggee ttggtnaget ggeettggge e
                                                                     831
      <210> 339
      <211> 758
      <212> DNA
      <213> Homo Sapiens
      <400> 339
ccaacatgtc ccgtggttcc agcgccggtt ttgaccgcca cattaccatt ttttcacccg
                                                                      60
agggtegget etaceaagta gaatatgett ttaaggetat taaccagggt ggeettacat
                                                                     120
cagtagctgt cagagggaaa gactgtgcag taattgtcac acagaagaaa gtacctgaca
                                                                     180
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttgtg
```

A - AI - UU / UI A - U / /

240

. A. 49.

2 4 . . .

-0 194**9**36

1 11 1900

```
tgatgacegg aatgacaget gacagcagat cecaggtaca gagggcacge tatgaggcag
                                                                                                                            300
 ctaactggaa atacaagtat ggctatgaga ttcctgtgga catgctgtgt aaaagaattg
                                                                                                                            360
ccgatatttc tcaggtctac acacagaatg ctgaaatgag gcctcttggt tgttgtatga
                                                                                                                            420
ttttaattgg tatagatgaa gagcaaggcc ctcaggtata taagtgtgat cctgcaggtt
                                                                                                                            480
actactgtgg gtttaaagcc actgcagcgg gagttaaaca aactgagtca accagcttcc
                                                                                                                            540
ttgaaaaaaa agtgaagaag aaatttgatt ggacatttga acagacagtg gaaactgcaa
                                                                                                                            600
ttacatgcct gtctactggt ctatcaattg atttcaaacc ttcagaaata gaagttggag 660
tagtgacagt tgaaaatcct aaattcagga ttcttacngg aagcagagat tgatgcttac
                                                                                                                            720
cttgtgnttt agengagagg agaettaacc attggeeg
                                                                                                                            758
           <210> 340
           <211> 840
           <212> DNA
           <213> Homo Sapiens
           <400> 340
ccaaaagcct tgttttattt atatagagtc ctaaccactt cggtggtagg aggagtggga
                                                                                                                             60
gaggeteett tttcaateea gggaceteea tgatgttggt ttgttgttae caaacacaca
                                                                                                                           120
ggtaagtggc atcacggatc tggtaaacta acgacaatgt ttagtctctc tctgctagag
                                                                                                                           180
caacaaggtg agcatcaatc tetgettetg taanaateet gaatttagga ttttcaactg
                                                                                                                           240
tcactactcc aacttctatt tctgaaggtt tgaaatcaat tgatagaaca gtagacaggc
                                                                                                                           300
atgtaattgc agtttccact gtctgttcaa atgtccaatc aaatttcttc ttcactttt
                                                                                                                           3.6.0
tttcaaggaa gctggttgac tcagtttgtt taactcccgc tgcagtggct ttaaacccac
                                                                                                                           420
agtagtaacc tgcaggatca cacttatata cctgagggcc ttgctcttca tctataccaa
                                                                                                                           480
ttaaaatcat acaacaacca agaggcctca tttcagcatt ctgtgtgtag acctgagaaa
                                                                                                                           540
tatoggoaat tettttaeac ageatgteca caggaatete atagecatae ttggatttee
                                                                                                                           600
agttagetge etcatageeg tgeeettetg tacetgggat etgetgteag etgeatteeg
                                                                                                                           660
gtcatcacac aaccaatggt ttcagttatc ttggaataag tgaggtcact gngctggaat
                                                                                                                           720
nccaataatt tggcaggnacactttctttet ggggngacaa ttactggccc agtetttcc
                                                                                                                           780
tttggacagn tactggaggt aagggccacc ctgggttaat agccctttaa aggcntaatc
                                                                                                                           840
                 大学 一直要用基础的编码表示的企业。这
                                                                  State of the state
           <210> 341 (1000) (2000) (2000) (2000)
                                                                   $ - $ XXX
           <211> 793/696年第78年8日 (1971年)
           <212> DNA
                                      . .
           <213> Homo Sapiens
          <400> 341
cactttaatt tetttattea tnaatagtat eegaaaagga agaateagga gttacaaaaa
                                                                                                                             60
caagttaaat gcaatataga agcctactaa atacaaatac aagttcacaa acacatatgc
                                                                                                                           120
aacagaaact tgtttanatt gtttcttgaa gtttgactac ttaaaaacat aggngtaaag
                                                                                                                           180
gaaagacatt canactggtc cncgngggct tgntagcagg cagaggaacc ctgctttcca
                                                                                                                           240
aaaactgnta tagtccanan teneggeatg ngggaatgnt tecatggaen etggatetta
                                                                                                                           300
acagatgeta tagggtttac aaaactacne acneagagaa ageecaagga ageetgeagg
                                                                                                                           360
ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgnttg
                                                                                                                           420
ctccatgcaa aactttttgg aaactccccc agactaggct ttttancagn nttccattga
                                                                                                                           480
atggggenne aaanenttgg gaattttacg gntnaaanen aaagntngee ttntttneee
                                                                                                                           540
ccgaaagctt tgaaaaactt ttcagngggn atnggggaat ttggnttntt ggggnngttc
                                                                                                                           600
aattgttncc ngggtaaaaa ganacccttg gggaggnaaa cccctgngtt tnaannggcc
                                                                                                                           660
ttaggggaaa naaccentgg gggtntentt ggnnttttaa caaaattggg gggncntttt
                                                                                                                           720
ggnccttcct cccaaaaggg ggcccanggn ctgnggaaaa aaccttttgg antaaggggg
                                                                                                                           780
gncccnnctt gga
                                                                                                                           793
          <210> 342
          <211> 906
```

<212> DNA

# <213> Homo Sapiens

<400> 342	
ccaacatgtc ccgtggttcc agcgccggtt ttgaccgcca cattaccatt ttttcaccc	g 60
agggtcggct ctaccaagta gaatatgctt ttaaggctat taaccagggt ggccttaca	t 120
cagtagetgt cagagggaaa gaetgtgeag taattgteae acagaagaaa gtacetgae	a 180
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttgt	g - 240
tgatgaccgg aatgacagct gacagcagat cccaggtaca gagggcacgc tatgaggca	g 300
ctaactggaa atacaagtat ggctatgaga ttcctgtgga catgctgtgt aaaagaatt	g 360
cegatattte teaggtetae acacagaatg etgaaatgag geetettggt tgttgtatg	a 420
ttttaattgg tatagatgaa gagcaaggcc ctcaggtata taagtgtgat cctgcaggt	t 480
actactgtgg gtttaaagcc actgcagcgg gagttaaaca aactgagtca accagctto	c - 540
ttgaaaaaaa agtgaagaag aaatttgatt ggacatttga acagacagtg gaaactgca	a 600
ttacatgeet gtetactgtt ctateaattg attteaaace tteagaaata gaagttgga	g660
tagtgacagt tgaaaatcct aaattcagga ttnttacaga agcagagatt gatgctcac	c 720
tigitigetet ageagagaga gaetaaaeat tgtegttagt ttaecagate egtgatgee	a 780
cttacctgtg tgtttggtaa caacaaacca acatcatgga ggtccctgga ttgaaaaag	g 840
agcetetece acteetecta ceacegaagt ggttaggact etatataaat aaaacaagg	c 900
ttttgg	906
	500
<210> 343	
<211> 875	
<212> DNA	
<213> Homo Sapiens	
<400> 343	
gcaaggcaat tgagcgtgga acaggaaatg acaattatag aacaacggga attgctaca	a 60.
tegaggtgtt tttaccacca agactaaaaa aagataggaa aaacttgttg gagacccga	t 120
tgcacatcac tggcagagaa etgaggtcca aaatagctga aacctttgga cttcaagaa	a 180
attatatcaa aattgtcata aataagaagc aactacaact agggaaaacc cttgaagaa	C 240
aaggegtgge teacaatgtg aaagegatgg tgettgaact aaaacaatet gaagaggae	g 300
cgaggaaaaa cttccagtta gaggaagagg agcaaaatga ggccaaactc aaagaaaaa	G 360
aaattcagag gaccaagaga ggactagaaa tactggcaaa gagagcagca gagacagtg	g 420
tggatccaga aatgacaccg tacttagaca tagctaacca gacaggcaga tcaatcaga	a 480
ttcccccatc agaaagaaaa gcccttatgt tagctatggg atatcatgag aagggcaga	g 540
ctttcctgaa aagaaaagaa tatggaatag ccttgccatg tctgttggac gctgacaaa	5 540 t 600
atttctgtga gtgttgcaga gagctgctgg acacagtgga taactatgcc cgtcttcag	c 660
tggatatagt gtggtgttac tttcgcctgg aacagctgga atgccttgat gatgcagaa	a 720
aaaaattaac ttggnccaga aatgctttaa aaattggtcc ggagaaatcn tcgaaactg	g 780
teceentaaa nggaattgtg gggaaaagag aangtetggt tetaagaetn taettaett	t 840
nagggatccg aacttttcca gggggaatga tgtaa	875
	075
<210> 344	
<211> 629	
<212> DNA	•
<213> Homo Sapiens	
<400> 344	
atatttccca ccttttattt ccatcggtat catccgttta aaaagaatga caagaagat	t 60
cocarcagre caaactggac cacccacact ttgaaaaagt tggagcattt cagccgget	- 60
5	C 720
egeatgatee atcetgtett cagteagtge ettetggaag ggagggaaag tottggate	C 120
egearganee ancergient cagicagige effetygaag ggagggaaag tettggang	c 180
egeatgatee atcetgtett cagteagtge ettetggaag ggagggaaag tettggatg acetggeact caatceacte ggeacetgge tgetgetgeg gteetggge tggaaggaa	C 180
egeatgated atcetgictt cagteagige citetggaag ggagggaaag teitggatg acciggeact caatecacte ggeaceigge tgetgeigeg gicetgggge iggaaggaa teccaciggg cacacateta cagaggagig egiggegeag igaggaeggi tactgeigg	C 180 C 240
egeatgatee atcetgtett cagteagtge ettetggaag ggagggaaag tettggatg acetggeact caatceacte ggeacetgge tgetgetgeg gteetggge tggaaggaa	C 180 C 240 a 300 C 360

```
♥♥ ♥ フク/リサムリン
                                                           シェノンロノロノエマロノノ
tctcttagct agcagtgagt tcagtatgac agcacagagt ctaaaaaatat taattaaaaa
                                                                    480
taaattgett tggttageat ttaaaeettt eccatteaat agaagattte tgtaatgagg
                                                                    540
aatgctgaat atatataaag cctgccactc aatctttgaa tttcnggggg cgcaatttta
                                                                    600
ctgaactaag anccctaaaa caactggcg
                                                                    629
      <210> 345
      <211> 724
      <212> DNA
      <213> Homo Sapiens
      <400> 345
cttgggtggt tattttnctt ttctgngtcc ttccccanca gcagttggaa ttttcttttg
                                                                     60
aacacaaagt aaattaatgt tnatactgnt ttttcacctg agtcatgtaa aaggtgactc
                                                                    120
ctttcatttt aaaaagttat atttaatttt tgggggcctt aattaaaatt taacatttaa
                                                                    180
ccatgngtnn tttttttgta aacagtctac atgtcaacaa atggataagg gttaacaaag
                                                                    240
gcaaatnctg acttcatttg tgttttaaac acgattatat gaatttttct tttttaatta
                                                                    300
aaaaaatgac ataaaaccat tcatataggt cctcttctct caactgcttt gagatatagc
                                                                    360
tttaaatatg ggtagatcaa gacaagtaat gttggnaatc tcttatcttg catagaaaag
                                                                    420
aaaaaaataa aggaacttat ttccttccta aggtctcagc tagtttctta ngtctttct
                                                                    480
tcagctccaa tggaaattnc tcatagcact tcttacagac tggcttcatg tcaaactcca
                                                                    540
caaacttatt cttgantgtt aatttagtgt tgcaggtana acaggcaaag cagttcacgc
                                                                    600
accaggeett attaagagea gagaeeecea teacetteta taacaegatt geagtgggaa
                                                                    660
gcaaacatca ccaaatagct gggttatagn gagtttcaca atatgcccag gcctttcctt
                                                                    720
tcaa
                                                                    724
      <210> 346
     <211> 907
  <212> DNA
                                                                 - Perusa Light hoseness
DATE POR BUT OF THE STATE OF
 38 mg/<400> 346 ° .
                          1000000
                                                                一致治疗病的现在数形态 化闪电
agagcgaaatetttaecactg agcaagtgac tgccatgctt ttgtccaaac tgaaggagac (1999) common to the common agagcgaaate tttaecactg
tactgatgca gaaagacgat cagtgatgga tgcaacacag attgctggtc ttaattgctt
                                                                 180; ....
gcgattaatg aatgaaacca ctgcagttgc tcttgcatat ggaatctata agcaggatct
                                                                   240
tectgeetta gaagagaaac caagaaatgt agtttttgta gacatgggee actetgetta
                                                                    300
tcaagtttct gtatgtgcat ttaatagagg aaaactgaaa gttctggcca ctgcatttga
                                                                    360
cacgacattg ggaggtagaa aatttgatga agtgttagta aatcacttct gtgaagaatt
                                                                    420
tgggaagaaa tacaagctag acattaagtc caaaatccgt gcattattac gactctctca
                                                                    480
ggagtgtgag aaactcaaga aattgatgag tgcaaatgct tcagatctcc ctttgagcat
                                                                    540
tgaatgtttt atgaatgatg ttgatgtatc tggaactatg aatagaggca aatttctgga
                                                                    600
gatgtgcaat gatctcttag ctagagtgga gccaccactt cgtagtgttt tggaacaaaa
                                                                    660
ccaagttaaa gaaagaagat atttatgcag tggagatagt tggtggtgct acacgaatcc
                                                                    720
ctgcggtaaa aggagaagat cagcaaaatt tttcggtaaa gaacttagta caaccnttaa
                                                                    780
atgctgatga aactgcactc gaggctgggc cattgcantg ggccatctta tcgcctgctt
                                                                    840
tcaaagtccg agaantttct atcactgatg tagtaccata tccatatctc tgaaaaggga
                                                                    900
atcttcc
                                                                    907
     <210> 347 ·
     <211> 711
     <212> DNA
```

<213> Homo Sapiens

<400> 347

ataatagnet gttttaatan aaacaagngt tggaateaat caatgneeat tteaggaage

11.

```
ttnttgtctg aatccgaagg cncagctgng tctgtaccct gctcancagc ctgggggcct
                                                                       120
gggttgtete ettgnecate caetggteea thetgetetg catttttttg thechnthth
                                                                       180
ggaggttcca ctttgggttt gggctttgaa attatagggc tacaagtact tgncagctcc
                                                                       240
ttaattttag cttcaatctc ttttgacttg acaactggat ccatggncaa actntgcttg
                                                                       300
ttctgcaaat ttagcttggt attcatccac tccattgctt catttgggct tttttctacc
                                                                       360
tttgtcatgt cagcagcatc cgaatgatca tactggtcct ccttgntttt gaaagagctg
                                                                       420
attattttca tatactgntg aatctgnttc cctagttctt caaataattt tgqtcqttct
                                                                       480
tnaaattoot ggaaacgtat nttaataggt tgacctaaat tttttaatto agccaactta
                                                                       540
tcaacataaa cttgctttgg ctggcttctc catcctcata caaccaattt tcaqtatctt
                                                                       600
ccagtttcaa agtaaaactg ttacgancat nttcactnnc aaacttctca tattcnccac
                                                                       660
taaagettgg ctctcatttc ataccccata tttcctccca ctggggtctt a
                                                                       711
      <210> 348
      <211> 862
      <212>-DNA--
      <213> Homo Sapiens
      <400> 348
cttgagcctc atgtaaccgg cgctttagat caccaatctc ctcttgggct tcagatttaa
                                                                        60
tgtcatttgc aatgactact gcagtctgga gatcagcctg aaactgccgc cattccgcag
                                                                       120
attetteccg aagtettetg tggagtgtet ttatttetet ttecatgteg tgettttggt
                                                                       180
cctggagttt tttaactgta ttctctagat cagaaataat gaggttgtca tgaagtttca
                                                                       240
cagcacgatg ttgttctact tcatcttcaa gttcaaagat ggtttctttc atgtcactcc
                                                                       3.0.0
tttctgtttc tttttcatcc aggtctgatc ttaatttttc taacgtcata ttcaaatctt
                                                                       360
caattigtit citagetict tetiggaagg cicggtatic atectetace trageaatgg
                                                                       420
catcetgtaa tegattggca teattteggg tatgageeag atetteetge aagetaetag
                                                                       480
ccaaagtete tgettttet ttgtecagee tgacaetete caggaggtee tgaatateag
                                                                       54.0
atttgnctcc agagttatgg atagaataca gctctgccac tttctgcttt tcattctcca
                                                                       600
getgageett caggegatte atetetatet ggtcactgge cactgngget ttgnatteet
                                                                       660 😗
ctaacgtggc tgncaaggct gcttttcctt tctgctcnac tcaaataaat tcgctccata
                                                                       7.20 page 1 200 c.
tgggnggact ggcgttcctt tggagtgccc cctatcattt cttggngctt tccttantgg
                                                                       780 ; Mar. 1
ccttgggttc tggccatttt tccaaagtat tggctttaaa atggctggct tgggacnccc
                                                                       840.000.000.000
aaggaaagct ggttcccggt to
                                               的性性病性的特殊的 人名巴克尔
                                                                      * 862 jakaria i
      <210> 349
                                                 医重复工 杂
      <211> 832
      <212> DNA
      <213> Homo Sapiens
      <400> 349
aagactttcc tacatcagtt ttatttaaaa cacaaacaag tatttctctt tctgtaaggq
                                                                        60
caaatggttc aaataatgcg gaacacgaaa cattgactaa tacaagtgct ttaaatatga
                                                                       120
aacaaaatta ttttttaaaa aagcaaaaga ataaagaata tatacaaaag ggacctggaa
                                                                       180
totgtaagot gattocaaaa acgaaataag tagaaaatoo atggtgaaac otgaacatto
                                                                       240
tacctctgct ttggagaagg gctatcatac aacattcagt cagctgaaga tggattggta
                                                                       300
gaggtgtgtc tatacataaa cttcagtcat ttttgcttgt gcagaatcat cccaatcttc
                                                                       360
ccaagactga atgggcagtc ctgtggcttt cttccttttc catattccca acaaggctac
                                                                       420
gtgaagttca actcttgatg agccgcttac aacagcagtt ccttaggagc caacatgaca
                                                                        480
ggtgggtcag atttccctat gagaaacaaa actggccacc tacagcaaaa tatcaaaatg
                                                                        540
ggtaagteet teetteetet teeteetgat tatatacaac atateteett teaagaetat
                                                                        600
tatttccatc atgcttattc cttcacaaat ctaaaccttg aggtgatatg aaggaaacca
                                                                        660
acatcangaa aagaaaactc aattcagaaa tgaagaaaac tggcaggtat acaatacacc
                                                                        720
cccagaacat ctcaatatcc ctggccagta caattcaagt gnactgggta caggcccata
                                                                        780
```

20 3 4 6 4 6 6 6 6 6

1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State

324 Ban

832

ggattaaata attgggcagc ttgggaataa agctcatttt tttnccctca gg

```
<212> DNA
      <213> Homo Sapiens
      <400> 350
cenacateag tttnattnaa aacacaanca agnatttetn tttengnang gncaaagggt 60
tnaaanaang cgnancacna ancatngact aatncaaggg cttnaaatat gaancaaaat
                                                                     120
nattttttaa aaaagcaaaa naataaanaa tatatncaaa ngggaccngn aatcngnaag
                                                                     180
engatnecaa aacenaaata agtaaaaaan eeanggggaa neenganeat tenacetnng
                                                                     240
nttngnaaaa gggctatcat ncaacattca gncagntgaa nanggatngg nanaggnggg
                                                                     300
ncnatncata ancttcagnc attttngctn gggcaaaatc atcccaatnt tcccaanact
                                                                     360
gaanggncag cccnggggct ttcttccttt nccanattcc caacanggnt acgngaagtt
                                                                     420
caactninga ngancegitt acaacagcag ticcttagga nccancatga caggggggnc
                                                                     480
aaatttccct atgagaanca aaacnggcca cctacagcaa aatatcaaaa ggggnaagnc
                                                                     540
ettectteet ettecteeng attatatnea ceatatetee ttteangaet atnattteea
                                                                     600
tcaggctnat tccttcacaa atntaaacct tgaggggata tgaaggaacc caacttcngg
                                                                     660
aaangaaaac tcaattcana aattgaagaa acctggcagg tatacaatac cccccaggn
                                                                     720
catntcaana tecetggeac aagnnecaat teagggneet ggtaceagee ceatagaana
                                                                     780
aa
                                                                     782
      <210> 351
      <211> 775
      <212> DNA
      <213> Homo Sapiens
      <400> 351
ggcaaggegg ctgctgegaa tcaccaaaag aacagggatg aaagaagaga agaacettca
                                                                      60
ggaaggaaat gaagttgatt ctcagagcag tattagaaca gaagctaaag aggcttcagg
                                                                     120
180
gaagcacatg cagaacagc aggagagggamaaaatcagtc ttgacacctc ttcggggaga
                                                                     240
tgtagcatet tgcaataccc aagtggcaga gaaaccagtg ctcactgctg tgccaggaat
                                                                     300
cacacggcac ctgaccaagc ggcttcccac aaagtcatcc cagaaggtgg aggtagaaac
                                                                     360
ctcagggatt ggagactcat tattgaatgt gaaatgtgca gcacagacct tggaaaaaag
                                                                     420
gggtaaagct aaacccaaag tgaacgtgaa gccatctgtg gttaaagttg tgtcatcccc
                                                                     480
caaattggcc ccaaaacgta aggcagtgga gatgcacgct gctgtcattg ccgctgtgaa
                                                                     540
gccactcagc tccagcagtg tcctacagga acccccagcc aaaaaggcag ctgtggctgt
                                                                     600
tgtcccgctt gtctctgagg acaaatcagt cactgtgcct gaagcagaaa atcctagaga
                                                                     660
cagtetttgt gettgnette aacceagtee ttntteagat teettaceee cagaggtgte
                                                                     720
ttggnccttt cttcatncca aatggagcct tgaaaaactt cggccgactt agctt
                                                                     775
      <210> 352
      <211> 865
      <212> DNA
      <213> Homo Sapiens
      <400> 352
cctacatcag ttttatttaa aacacaaaca agtatttctc tttctgtaag ggcaaatggt
                                                                      6.0
tcaaataatg cggaacacga aacattgact aatacaagtg ctttaaatat gaaacaaaat
                                                                     120
tattttttaa aaaagcaaaa gaataaagaa tatatacaaa agggacctgg aatctgtaag
                                                                     180
gtgattccaa aaacgaaata agtagaaaat ccatggtgaa acctgaacat tctacctctg
                                                                     240
ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tagaggtgtg
                                                                     300
tetatacata aactteagte atttttgett gtgeagaate ateceaatet teecaagaet
                                                                     360
gaatgggcag tootgtggct ttottcottt tooatattoo caacaaggct acgtgaagtt
                                                                     420
caactettga tgageegett acaacageag tteettagga gecaacatga caggtgggte
                                                                     480
```

77 V ///U74UJ

<210> 350 <211> 782

```
agattteeet atgagaaaca aaactggeea eetacagcaa aatatcaaaa tgggtaagte
                                                                                                                            540
cttccttcct cttcctcctg attatataca acatatctcc tttcaagact attatttcca
                                                                                                                            600
tcatgcttaa tncttccaaa tctaaacctt gaggngatat tgaanggaaa cccaccttca
                                                                                                                           660
nggaaaagaa aacctcaatt tcagaaatgg aagaaaaact ggcagggtat accaatacac
                                                                                                                           720
cccccagag catttttaaa atatccctgg ncacaagtnc caattcaagg gnacctggtt
                                                                                                                           780
ccggnccata gaataaaana ntgggcactt tggaaaaaaag cnccattttt ttcccttcag
                                                                                                                            840
ggggggttaa aagggccccc aaacc
                                                                                                                          865
          <210> 353
          <211> 875
          <212> DNA
          <213> Homo Sapiens
          <400> 353
gacttteeta catcagtttt atttaaaaca caaacaagta tttetette tgtaagggca
                                                                                                                             60
aatggttcaa ataatgcgga acacgaaaca ttgactaata caagtgcttt aaatatgaaa
                                                                                                                            120
caaaattatt ttttaaaaaa gcaaaagaat aaagaatata tacaaaaggg acctggaatc
                                                                                                                            180
tgtaagetga ttccaaaaac gaaataagta gaaaatccat ggtgaaacct gaacattcta
                                                                                                                            240
cetetgettt ggagaaggge tatcatacaa cattcagtca getgaagatg gattggtaga
                                                                                                                            300
ggtgtgtcta tacataaact tcagtcattt ttgcttgtgc agaatcatcc caatcttccc
                                                                                                                            360
aagactgaat gggcagteet gtggctttet teetttteea tatteecaac aaggetaegt
                                                                                                                            420
gaagttcaac tettgatgag eegettacaa cagcagttee ttaggageea acatgacagg
                                                                                                                           480
tgggtcagat ttccctatga gaaacaaaac tggccaccta cagcaaaata tcaaaatggg
                                                                                                                            540
gtaagteett cetteetet eeteetgatt atatacaaca tateteettt caagactatt
                                                                                                                            600
atttccatca tgcttattcc ttccaaatct aaacccttga ggtgatatga aggaaaccaa
                                                                                                                            660
catcaagaaa aagaaaactc aattcagaaa atgaagaaaa ctggcaggga tacaatacac
                                                                                                                            720
ccccagagca tcttcaatat cccctgggca cagtncccaa ttcagggact gggtacaggc
                                                                                                                            780
ccataagaat naaataattg ggcagetttg gaataaagcc teatttttt cccttcaggn
                                                                                                                            840
gggttaaagg ggcccccaa accaaaact ggggc
                                                                                                                          *875.4837 4 #2666 6
 The Reflection of the Control of the
                                             distribution of the con-
 ***<210> 354 · · · ·
                                                  1、中科·夏德智建设工艺工作。
1、特别数数数据证明的证据证据
     <212> DNA
                                                                                                                         2000年後第28 360年20日
         <213> Homo Sapiens
          <400> 354
gactttccta catcagtttt atttaaaaca canacangta tttctctttc tgtaagggca
                                                                                                                              60
aatggttcaa ataatgcgga acacgaaaca ttgactaata caagngcttt aaatatgaaa
                                                                                                                            120
caaaattatt ttttaaaaaa gcaaaagaat aaagaatata tacaaaaggg acctggaatn
                                                                                                                            180
tgtaaggtga ttccaaaaac gaaataagta gaaaatccat ggtgaaacct gaacattcta
                                                                                                                            240
cctctgcttt ggagaagggc tatcatacaa cattcagtca gctgaagatg gattggtaga
                                                                                                                            300
ggtgtgtcta tacataaact tcagtcattt ttgcttgtgc agaatcatcc caatcttccc
                                                                                                                            360
aagactgaat gggcagtcct gtggctttct tccttttcca tattcccaac aaggctacgt
                                                                                                                            420
gaagttcaac tettgatgag cegettacaa cagcagttee ttaggageca acatgacagg
                                                                                                                            480
tgggtcagat ttccctatga gaaacaaaac tggccaccta cagcaaaata tcaaaatggg
                                                                                                                            540
taagnootto ottoototto otnotgatta tataonnoat atotoottto aagaotatta
                                                                                                                            600
tttccatcat gcttattcct tccaaatcta aaccttgagg ngatatgaan ggaaaccaca
                                                                                                                            660
tcaggaaaag gaaactcaat tccgaaatga ngaaaactgg caggt
                                                                                                                            705
           <210> 355.
          <211>, 862
           <212> DNA
           <213> Homo Sapiens
```

<400> 355

<210> 356 <211> 750

<212> DNA

<213> Homo Sapiens

#### <400> 356

ccatcagtga gagcgagetg agegecageg ccaetgaget getgeaggae tacatgetga 60 cgctgcgcac caagctgtca tcacaggaga tccagcagtt tgcagcactg ctgcacgagt accgcaatgg ggcctctatc cacgagttct gcatcaacct gcggcagctc tacggggaca 120 180 gccgcaagtt cctgctgctt ggtctgaggc ccttcatccc tgagaaggac agccagcact 240 togagaactt cotggagacc attggcgtga aggatggccg cggcatcatc actgacagct 300 ttggcaggca ccggcgggcc ctgagcacca catccagttc caccaccaat gggaacaggg 360 ccacgggcag ctctgatgac cggtcggcac cctcagaggg ggatgagtgg gaccgcatga 420 00 tctcggacat cagcagcgac attgaggcgc tgggctgcag catggaccag gactcagcat 4800000 gatggacagt ggatggggg gcacccacac cttccgcgca gtcgtcatag gccttcccag **540** (40 ) (1) aaggagetge cagacetgeg tgtcaaceet tggtggtgge cagggagaggcegeeggtge agatggcccc gggccggccc aagtcctcta ctgtgaagga acagggagct tgccgangga 600°2516.73 cacgaacete aatgeegggg tggaangete tttggettgt ccaccaagge ttageecage 720. ccttgcaatg nggccccgct tcggggaagg 750

<210> 357

Arthritish State of the

1 (1.30)

 $\mathcal{M}_{\mathcal{A}_{p,q}}(\mathcal{A}_{p,q}) = \mathcal{M}_{\mathcal{A}_{p,q}}(\mathcal{A}_{p,q}) = \mathcal{M}_{\mathcal{A}_{p,q}}(\mathcal{A}_{p,q})$ 

4 + 4.7 474 (

<211> 725

<212> DNA

<213> Homo Sapiens

## <400> 357

gcagtaaact tetttttaag gtetetgana gttacaatag gaacateatg tgcaaaactg 60 acageegtee aagggeecag eegacaggae tggeteteee tgeeegeteg geegggeeet 120 ccccgagcgg ggacacactg cagggettgg ctganccctg gtggacaagg caaagagcet 180 tccaccccgc actgaggetc gtgtccctcg gcagctccct gctccttcac agtanaggac 240 etgggeegee eggggeeate tgeaceggge geetnteeet ggeeaeeace aagggetgae 300 acgcaggtct gggcagctcc ttctgggaag gcctatgacg actgcgcgga aggtgtgggt 360 gecececcat ecaetyteca teatyetyay teetyyteea tyetyeayee cayeyeetea 420 atgtegetge tgatgteega nateatgegg teccaeteat ecceetetga gggtgeegae 480 cggtcatcag agctgcccgt ggccctgttc ccattggtgg tggaactgga tgtggtgctc agggeeegee ggtgeetgee aaagetgtea gtgatgatge egeggeeate ettnacgeea 540 600 atggtetnea ggaagttete gaantgetgg etgneetttn teagggatga anggeettan 660 accaagcage anggaacttg eggnttntce eegaaaanet tgeeneaggt tgatgeaaaa 720 acttc 725

```
<210> 358
      <211> 813
      <212> DNA
      <213> Homo Sapiens
      <400> 358
aaggcgacag ctgcccattc cgtcactgtg aagctgcaat aggaaatgaa actgtttgca
                                                                      60
cattatggca agaagggcgc tgttttcgac aggtgtgcag gtttcggcac atggagattg
                                                                       120
ataaaaaacg cagtgaaatt ccttgttatt gggaaaatca gccaacagga tgtcaaaaat
                                                                       180
taaactgcgc tttccatcac aatagaggac gatatgttga tggccttttc ctacctccga
                                                                       240
gcaaaactgt gttgcccact gtgcctgagt caccagaaga ggaagtgaag gctagccaac
                                                                       300
tttcagttca gcagaacaaa ttgtctgtcc agtccaatcc ttcccctcag ctgcggagcg
                                                                       360
ttatgaaagt agaaagttcc gaaaatgttc ctagccccac gcatccacca gttgtaatta
                                                                       420
atgctgcaga tgatgatgaa gatgatgatg atcagttttc tgaggaaggt gatgaaacca
                                                                       4-8-0-
aaacacctac cctgcaacca actcctgaag ttcacaatgg attacgagtg acttctgtcc
                                                                       540
ggaaacctgc agtcaatata aagcaaggtg aatgtttgaa ttttggaata aaaactcttg
                                                                       600
aggaaattaa gtcaaagaaa atgaaggaaa aatctaagaa gcaaggtgag ggttcttcag
                                                                       660
gagtttccag tcttttactt cacccttgag ccccgntcca ngtcctgaaa aagaaaatgt
                                                                       720
caaggactgt ggtgangaca gtactntttt caccaaccaa ggagaagaac ccttggttag
                                                                       780
atgagtetta etgagagaet ggggaaacea aaa
                                                                       813
     <210> 359
      <211> 756
      <212> DNA
      <213> Homo Sapiens
      <400> 359
cagcagagga gaggcagagg ataaaagagg aagagaaaag ggcagcagag gagaggcaaa
                                                                        60
gggccagggc agaggaggaa gagaaggcta aggtagaaga gcagaaacgt aacaagcagc
                                                                       120
tagaagagaa aaaacgtgcc atgcaagaga caaagataaa aggggaaaag gtagaacaga
                                                                       180
aaatagaagg gaaatgggta aatgaaaaga aagcacaaga agataaactt cagacagctg
                                                                       240
teetaaagaa acagggagaa gagaagggaa etaaagtgca agetaaaaga gaaaagetee
                                                                       300
aagaagacaa geetaeette aaaaaagaag agatcaaaga tgaaaagatt aaaaaggaca
                                                                       360
aagaacccaa agaagaagtt aagagcttca tggatcgaaa gaagggattt acagaagtta
                                                                       420
agtcgcagaa tggagaattc atgacccaca aacttaaaca tactgagaat actttcagcc
                                                                       480
gccctggagg gagggccagc gtggacacca aggaggctga gggcgccccc caggtggaag
                                                                       540
ccggcaaaag gctggaggag cttcgtcgtc gtcgcgggga gaccgagagc cgaagagttc
                                                                       600
gagaagctca aacagaagca gcaggaggcg gctttggagc tggaggaact caaggaaaaa
                                                                       660
ganggaggag agaaggaagg teetgganga ggaagageag aggaaggaac aggaggaaag
                                                                       720
ccgatcggaa aaccttcaag aggaggaaga agaaga
                                                                       756
      <210> 360
      <211> 706
      <212> DNA
      <213> Homo Sapiens
      <400> 360
aatttettee atgetttatt ataaagngea naaacaacat gaettetgta tttaaaaaaa
                                                                        60
caaaaactac ggttcatttt tctagatact gcacacattc cgcaggcaat tttaaacttg
                                                                       120
gatettetgt tgaetteana tgnggttggt atcactgete aaatacagag ttatgatgat
                                                                       180
cagtanaaaa gtctntattt cacagcatgg gtttctttan aaacaggctc ctgngcaaag
                                                                       240
gcagtacttt taccatgaac atctntanac tgggattatt aaatatagng ataatataca
                                                                       300
tgggtttact gggatattga aaaataaaag ataatgaacc caatttagta aatcaacata
                                                                       360
aatacaaaac agagcgaatt agccctntac aactgagctc gtcctgcgtc ttgagcttgg
                                                                       420
gttctttctg gaactgtctc aaaccttagt gggggaagtg accttatcca canattgctt
                                                                       480
```

ママひ フン/ひゃんひご

```
ttcccagagg ttccgcttgc tggataccgt ctcctggnct caagtcanaa ggtttgggag
        caggigacti gittccatci ggggitttaa gitagccatt cattgatgcg gctagaaacc
                                                                                                                         540
        cctaccttta agccagcagt ttnccttatt tgggggngcc ctgctgcant ggggggatga
                                                                                                                        600
       aaacncattt cetttnteca catactettg aaggttgegg tacace
                                                                                                                        660
                                                                                                                        706
                 <210> 361
                 <211> 726
                 <212> DNA
                 <213> Homo Sapiens
                 <400> 361
       gecatgetac gegegetgag cegeetggge geggggaece egtgeaggee eegggeeent
       ctgntgctgc cagcgcggg ccgcaagacc cgccacgacc cgctggccaa atccaagatc
                                                                                                                         60
       gagcgagtga acatgccgcc cgcggtggac cctgcggagt tcttcgtgct gatggagcgt
                                                                                                                        120
       taccagcact accgncagac cgtgcgcgcc ctcaggatgg anttcgtgtc cgaggtgcat
                                                                                                                        180
       aggaaggtgc acgaggcccg agccggngtt ctggcgganc gcaaggccct gaaggacgcc
                                                                                                                        240
       gccgagcacc gcnagctgat ggcctggaac caggcggaga accggcggct gnacgagctg
                                                                                                                        300
       cggatagcga ggctgcggca ggaggancgg nagcaggagc agtgncaggc gttggagcan
                                                                                                                        360
       gecegeaagg cegaagaggt geangeetgg gegeagegea aggagegnga antgetgeag
                                                                                                                        420
       ctgcagnaag aggtgaaaaa cttcatcacc cgagagaacc tggaggcacg ggtggaagca
                                                                                                                        480°
       geattggact cccggaagaa ctacaactgg gccatcacca gagaggggct ggtggtcagg
                                                                                                                        540
       ccacaacgca nggacttcta agggcccagt aaggacagtg cccggcaggg-accatgtatg
                                                                                                                        600
      tatcatggcg gaagagttgc ccttgactgg aattaaagca attggtgttg cttatgagga
                                                                                                                        660--
                                                                                                                        720
       aaggtt
                                                                                                                        726
                <210> 362
                <211> 747
          <212> DNA
        高速で<2130%Homo Sapiens
                                                                                                                   CALL ST ST
   "不多的。」如"在这个人的人,
                                                                                                              स्य विकासि विकासक्षिप्तर १५८६ वर्षे १००० होतु १
      "∂~i.....<400>..362
                                            ് ഇരുത്തുമുള്ള പ്രവാധ ക്രാവര്യ വാധിക്കുള്ള വാധിക്കാന് വാധിക്കാന
    acatgctagt cagctngcag ttttacctcg taaagatanc aganaattat agncaaacca
      gtaaacangg aattnacttt tcaaaagatt aaatccaaac tgancaaaat tntaccctaa
                                                                                                                     180 m
      aacttactcc atccaaatat tggaataaaa gtcagcaggg atncattctn ttctgaactt
                                                                                                                      240
      tanattttnt anaaaaatat gtaatagnga tcaggaggag ctnttgttca aaagtncaac
                                                                                                                       300
      aaagcaangt taccttacca taggccttaa ttcaaacttt gatccatttc actccaanga
                                                                                                                       360
      cgggagtcaa ngctacctgg gacacttgta tttgtaaatt ctgatttagc ttatngtaaa
                                                                                                                       420
      cttgggccta ctttgncatg agggtttgac ttcngcattn ttcggggntt tccttccttt
                                                                                                                       480
      ggettaggtt tgetaaaget agaanattea attgetettt acagaettat gaggaanata
                                                                                                                       540
      gactttgtaa cgcanatgtc acttttaatg ccagccctgc cctggttagc ncttctggag
                                                                                                                       600
      gaatactgca gataagaaaa atagttattt gggaggctcc ctcagngggg tanggaattg
                                                                                                                       660
     gggactaacc ncaattttng gttaaag
                                                                                                                       720
                                                                                                                       747
               <210> 363
               <211> 1227
               <212> DNA
               <213> Homo Sapiens
               <400> 363
     gtgaagaccc tgagtccgtt tatttgccgg taggagcagg ctccaacatt ttgtctccat
     caaacgttga ctgggaagta gaaacagata attctgattt accagcaggt ggagacatag
                                                                                                                        60
     gaccaccaaa tggtgccagc aaggaaatac cagaattgga agaagaaaaa acaattccta
                                                                                                                       120
     ccaaagagcc tgagcagata aaatcagaat acaaggaaga aagatgcaca gagaagaatg
                                                                                                                       180
```

A ショノンロノロ/カマロ・ノ

240

₹₹ ₩ ファ/ひマルひご

```
aagategtea tgeactacae atggattaca tacttgtaaa eegtgaagaa aatteacaet
                                                                       300
caaagccaga gacctgtgaa gaaagagaaa gcatagctga attagaattg tatgtaggtt
                                                                       360
ccaaagaaac agggctgcag ggaactcagt tagcaagctt cccagacaca tgtcagccag
                                                                       420
cctccttaaa tgaaagaaaa ggtctctctg cagagaaaat gtcttctaaa ggcgatacga
                                                                       480
gatcatettt tgaaageest geacaagaes agagttggat gttettggge catagtgagg
                                                                       540
ttggtgatcc atcactggat gccagggact cagggcctgg gtggtctggc aagactgtgg
                                                                       600
ageogttete tgaactegge ttgggtgagg gteeceaget geagattetg gaagaaatga
                                                                       660
ageetetaga atetttagea etagaggaag eetetggtee agteageeaa teacagaaga
                                                                       720
gtaagagccg aggcagggct ggcccggatg cagttaccca tgacagtgaa tgggaaatgc
                                                                       780
tttcaccaca gcctgttcag aaaaacatga tccctgacac ggaaatggag gaggagacag
                                                                       840
agtteettga geteggaace aggatateaa gaccaaatgg actactgtea gaggatgtag
                                                                       900
gaatggacat cccctttgaa gagggcgtgc tgagtcccag tgctgcagac atgaggcctg
                                                                       960
aacctcctaa ttctctggat cttaatgaca ctcatcctcg gagaatcaag ctcacagccc
                                                                      1020
caaatatcaa tettetetg gaccaaagtg aaggatetat tetetetgat gataactttg
                                                                      1080
gacagtecag atgaaattga cateaatgtg gatgaaettg ataeeeega tgaagcagat
                                                                      1140
tettttgagt accetggece atgaagaate ceacagecae aaagattetg geceaagaag
                                                                      1200
tcagagtcta tttcnggaat ataccgg
                                                                      1227
      <210> 364
      <211> 831
      <212> DNA
      <213> Homo Sapiens
      <400> 364
etgacateta cacegaggte egegagetgg tgageeteaa geaggageag caggetttea
                                                                        60
aggaggegge cegacaegga geggetegee etgeaggeee teaeggagaa getteteagg
                                                                       120
tetgaggagt eegteteeeg eeteeeggag gagateegga gaetggagga agageteege
                                                                       180 .
cagetgaagt cegatteeca egggeegaag gaggaeggag getteagaea eteggaagee
                                                                       240
tttgaggcac tccagcaaaa gagtcaggga ctggactcca ggctccagca cgtggaggat
                                                                       300 %
ggggtgctct ccatgcaggt ggcttctgcg cgccagaccg agagcctgga gtccctcctg
                                                                       360 per 11 - 6
tecaagagee aggageaega geagegeetg geegeeetge aggggegeet ggaaggeete
                                                                       420 percent and
gggtcctcagaggcagacca ggatggcctg gccagcacgg tgaggagcct gggcgagacc
                                                                       480.5x******
cagctggtgc-tctacggtga cgtggaggag ctgaagagga_gtgtgggcga-gctccccagc
                                                                       5403830 AM
accegtggaa teactecaga aggtgcagga acaggtgcac acgetgetca gtcaggacca
                                                                       600
agcccaggcc cgccgtctgc cttctcagga ctttctggac agactttctt ctctagacaa
                                                                       660 107
cetgaaagce teagteagge cagtggaage eggaettgaa aatgeteaag aactgetgtg
                                                                       720
gacaagttgg gtgcataact cggtcaaaat tagaaaccaa cgagnacaat tttggaatca
                                                                       780
agcccanggt tactagatga ccttggggaa tgatcnggat aggttgtttg t
                                                                       831
      <210> 365
      <211> 785 ·
      <212> DNA
      <213> Homo Sapiens
      <400> 365
acttgaaatc tgccagccag acaggatttc tgaggttaat ctgcttctgt taatcctcaa
                                                                        60
tttaageett tateattttt etetgaetag agacateeat gaaaageeae etgttattea
                                                                       120
caggggctgc gcttcaggaa accaaccaaa tgcagaagca gagaacttaa atattgtaaa
                                                                       180
taagttaact gggcatgaaa atacaatgcc ttggtgttca ggtggtgaca actgctcttt
                                                                       240
aagaggggac aagaaattgg ggggtagggg acacatggga aaaaaccaca cattttttgg
                                                                       300
tcatgagaaa ttggacttta aatccgcgcc ctgcacacgc aattcattta gaccttttcg
                                                                       360
tgaatcttct ccactttcac aaacaaccta tccagatcat tcctcaggtc atctagtaaa
                                                                       420
cccttggctg attccagatt gttctcgttg gtttctattt tgaccgagta tgcaaccaaa
                                                                       480
etgtecacag cagtectgag cattttcaag teegeeteea ettggetgae tgaggettte
```

计算经分类结合

 $\psi \in \mathcal{H}_{\mathcal{F}}(\mathbb{R}^n) \times \mathbb{R}^n \times \mathbb{R}^n$ 

90 **9**000-22

 $\mathcal{X}_{\mathbf{A}}^{s,T}(t) \leq_{\mathbf{A}} m_{\mathbf{A}}^{s,T}(t) \qquad (1)$ 

aggttgtcta gagaagaaag tctgtccagg aagtcctgag gaggcagacg ggcggcctgg

540

600

** ひ ノノ! ひてみひご A しょりしじょりりょうひょく gcttggtcct gactgagcag cgtgtgcacc tgctcctgcc ctttctggga gtgattccac 660 ggtgctgggg agctngccca cacttcctct tcagcttctt ccacgtcacc cgtaaaagca 720 cccagctggg tetegneeaa gettentace gtgetgggee aggeecatee tggnetgget 780 tttga 785 <210> 366 <211> 816 <212> DNA <213> Homo Sapiens <400> 366 gtcagccagc ctccttaaat gaaagaaaag gtctctctgc agagaaaatg tcttctaaag 60 gcgatacgag atcatctttt gaaagccctg cacaagacca gagttggatg ttcttgggcc 120 atagtgaggt tggtgatcca tcactggatg ccagggactc agggcctggg tggtctggca 180 agactgtgga geegttetet gaactegget tgggtgaggg teeccagetg cagattetgg 240 aagaaatgaa gcctctagaa tctttagcac tagaggaagc ctctggtcca gtcagccaat 300 cacagaagag taagagccga ggcagggctg gcccggatgc agttacccat gacagtgaat 360 gggaaatgct ttcaccacag cctgttcaga aaaacatgat ccctgacacg gaaatggagg 420 aggagacaga gttccttgag ctcggaacca ggatatcaag accaaatgga ctactgtcag 480 aggatgtagg aatggacatc ccctttgaag agggcgtgct gagtcccagt gctgcagaca 540 tgaggeetga accteetaat tetetggate ttaatgacae teateetegg agaateaage 600 tcacagecce aaatatcaat etttetetgg accaaagtga aggatetatt etetetgatg 660 ataactttgg acagtccaga tgaaattgac atcaatgtgg atgaacttga tacccccgat 720 gaagcagatt cttttgagta ccctggccca tgaagaatcc cacagccaca aagattctgg 780 cccaagaagt cagagtctat ttcnggaata taccgg 816 <210> 367 <211> 803 Service States of <212> DNA The company of a sold and set of <213> Homo Sapiens character of the land 27 · 中国的特殊的复数中心。 <400> 367 The Control of the State of the  $A_{i}(\mathbb{Q})(\overline{w}(x)) = 0$ aaaagaacca tggaagttet cetgaacagg tagtgaggee aaaagttaga aaactgataa 60 gttcaagcca ggtggaccaa gaaacaggtt ttaataggca tgaggcgaaa caaagaagtg 120 ttcaaagatg gagagaggct ttggaagttg aggaaagtgg ctcagatgac ctcttaataa 180 aatgtgaaga atatgatgga gagcatgact gtatgttctt ggatccacca tactcaagag 240 ttattacaca aagggaaaca gaaaataacc aaatgacatc agaaagtgga gccacagcag 300 gaaggcaaga agtggataac accttttgga atggctgtgg agattattac caactctatg 360 acaaagatga agatagttct gaatgcagtg atggggaatg gtctgcttct ttgcctcatc 420 gattttctgg tacagaaaaa gatcaatcct caagtgatga aagctgggag actctgccag 480 gaaaagatga gaatgaacct gagctacaaa gtgatagcag tggccctgaa gaagaaaacc 540 aagaattatc tetteaggaa ggggaacaga cateettgga agagggagaa atteettggt 600 tacagtacaa tgaagtcaat gaaagcagca gtgatgaagg gaaatgaacc tgccaatgaa 660 tttgcacage cagetttcat gttggatggt aacaataace tggangatga etteegtgtg 720 aagtgaagac ttagatgtgg attggageet attttgatgg etttgeaaat gggeetagga 780 gttgctggaa gctttttcat aag 803 <210> 368 <211> 809 <212> DNA <213> Homo Sapiens

<400> 368

attagaaatg accaccgagt atattctgtt tattgtttat gatttacaca gaaaatgatg 60 ggctggggtt atagaacaat aaaccaacca ttacatttag acctgggctt ttgaaaaact 120

```
tgcattccat tttaacaatt cgtatgtatc taacaaatac ataaatccag atcacaaata
                                                                                                                                         180
                   atcttaagag ttaaacaatt aagaaacaca aagaatacca catagatcta cctttaaata
                                                                                                                                         240
                   tcagcattca tattataaga aataagaaaa tgttaaaaaa ataaaattag gttaagtcac
                                                                                                                                         300
                   aacataaaat agagaaataa gataaatgct attttattaa tattcatact tatttctaat
                                                                                                                                         360
                   ttaccttcat atagtcttaa ctttttcaaa aggatccaag atatgatcaa ataatattt
                                                                                                                                         420
                   agtatctgaa cttgccagcc ttagcttata ccagagcttg ttaccatgaa aatcctaaaa
                                                                                                                                         480
                   cetcaattt ettttettt tttaaaattt aagecaacte ttattcaact tttettette
                                                                                                                                         540
                   acagcagctg tttatagata gtagggagcc aagaatgaag gacagtaaca gatggaaagc
                                                                                                                                         600
                   aaaaagtaca acagctatct taagttcagc tctcaacatt gctggttgag tttggaaccc
                                                                                                                                         660
                   aaaaccctct taacaactgg cagataatag cttaaatctt tacaggccaa ggaagaaata
                                                                                                                                         720
                   ttttctttgg ggacagctgn tatctagaag aaaacccang ggccctttaa tataggccta
                                                                                                                                         780
                   aaatattaan gggnggcttt aattttagg
                                                                                                                                         809
                             <210> 369
                             <211> 826
                             <212> DNA
                             <213> Homo Sapiens
                             <400> 369
                   gtgaagaccc tgagtccgtt tatttgccgg taggagcagg ctccaacatt ttgtctccat
                                                                                                                                           60
                   caaacgttga ctgggaagta gaaacagata attctgattt accagcaggt ggagacatag
                                                                                                                                         120
                   gaccaccaaa tggtgccagc aaggaaatac cagaattgga agaagaaaaa acaattccta
                                                                                                                                         180
                   ccaaagagcc tgagcagata aaatcagaat acaaggaaga aagatgcaca gagaagaatg
                                                                                                                                         240
                   aagategtea tgeactacae atggattaca taettgtaaa eegtgaagaa aatteacaet
                                                                                                                                         300
                   caaagccaga gacctgtgaa gaaagagaaa gcatagctga attagaattg tatgtaggtt
                                                                                                                                         360
                   ccaaagaaac agggetgeag ggaacteagt tagcaagett cccagacaca tgtcagecag
                                                                                                                                         420
                   cctccttaaa tgaaagaaaa ggtctctctg cagagaaaat gtcttctaaa ggcgatacga
                                                                                                                                         480
             gatcatcttt tgaaageeet geacaagaee agagttggat gttettggge catagtgagg
                                                                                                                                         540
respect warms toggtgated atcactggat godagggadt dagggddtgg gtggtdtggd aagadtgtgg war 600
online ....... ageegttete tgaaetegge ttgggtgagg gteeceaget geagattetg:gaagaaatga on 660
 TERRE TO LES acctetagaa tetttageae tagangaage etntggteea gteageeeat eeacaggaaga 🖖 720
Research and general participation of the second se
Note that the Armedia
 4 - 192 - 193 1 11
                             <210> 370
                                                                                                               March March 1986
                             <211> 783
                             <212> DNA
                             <213> Homo Sapiens
                             <400> 370
                   gcagaatcaa tttttatttc tgaattatac agtgaggcta tatagatata ttgtgtcatt
                                                                                                                                           60
                   aaagactttt atattattaa tctacattat ggagaattta tttaccaaaa cgaagtctaa
                                                                                                                                         120
                   cagacacttt attctgagca atccaatgca tgatagaaaa acctttagat atataaaaga
                                                                                                                                         180
                   ttaatttgtg cacatctaaa tgtttctaag ggaacaaact actgaggcat tgtgataaga
                                                                                                                                         240
                   cgagagttgc aaacatagta ccataactga atatttaaaa ttacatctta acaaaggcta
                                                                                                                                         300
                   ggagtagtga cttcctcaca cacctcagag aatgtcttag agagtaaccc catagaacat
                                                                                                                                         360
                   tgtatggctt caacagaaac ttcaggattt tcttccacac tgagctactg ccctcaaaca
                                                                                                                                         420
                   aactttetea eteettgaca etatettetg tgcaaattte tgttetttet ettaateaag
                                                                                                                                         480
                   gagetttgag aaacaatget tttgeececaa tgaceeettg gtteeettaa etacagatet
                                                                                                                                         540
                   ataggagaaa tgcaaagcag ttcccagaag tcagaaccaa agcaagaatg ttcagagtgc
                                                                                                                                         600
                   aagagetaga gagetaaate atgtgaatgg ttacetetgn ctacetatet gettanggat
                                                                                                                                         660
                   tatttttcta nggattcatc taggattcta tttaccttgg gggtgaaatg gacatggtag
```

ス シェノ シロフロノスマロテン

720

780 783

ママ V ノノノ ひてみひご

cttttcctta gccccatgcc aattaaaatt naatttgggc ntttaaagaa taattaaaat

```
<210> 371
```

<210> 371 <211> 793 <212> DNA <213> Homo Sapiens

<400> 371

```
ccacactgca ggatctgtct tcttctaaag aaccttctaa ttccctaaac ttacctcaca------ 60-
gtäätgaget gtgtteatee ettgtgeate eegaattgag tgaggteagt tetaaegttg
caccaagcat ccctccagta atgtcaagac ctgttagctc ttcctccatt tccactccct
                                                                       120
tgcccccaaa tcaaataact gtatttgtca cttccaatcc catcacaact tcagctaaca
                                                                       180
catcagcagc tttgccaact cacttgcagt ctgcattgat gtcaacagtt gtcacaatgc
                                                                       240
ccaatgeggg tagcaaggtt atggtttetg agggacagte agetgeteag tetaatgeee
                                                                       300
ggcctcagtt cattacacct gtctttatca attcatcctc aataattcag gttatgaaag
                                                                       360
gatcacagec aagcacaatt cetgeagece caetgacaae caaetetgge etgatgeete
                                                                       420
cototgttgc agttgttggc cotttacaca tacotoagaa cataaaattt tottotgoto
                                                                       480-
ctgtaccgcc taatgccctc tccagtagtc ctgctccaaa catccagaca ggtcgacctt
                                                                       540
tggtccttag ctcacgagcc acccctgttc agcttccttc ccttcttgna cgtcttctnc
                                                                       600
agttgccctt ctnatcccct gtgcaacaag tgaaagaatt gaatncagat gangctagcc
                                                                       660
ctnangtgaa caccttaaca gatcagacac tttttccttt tncagtcaac cccaatgggt
                                                                       720
                                                                       780
tcttcccttt tga
                                                                       793
```

<210> 372

<211> 804

<212> DNA

<213> Homo Sapiens

<400>.372

cacattgtac aaatccttag attctcttta ttcactggtc catttctaca acaaatacat eccaaaacacteatataataaa attatttaca acatttccaa atgagaagat tgcttttgcc : 124312041.00011.000 60' cceactactg ctattcacac acagtacttc cacggcacaa tacattagga gatctaaaaa acceasassocy.com e tgotcaccot gtactotagg otgottagga aatgtgaaaa otagtaacat ttataatggo ogoc240000 group ettagotootuttoaatadaa gadaaqatti tagaaaddti gaadttoaad togcaadad (480%300cds, spursu). aaaagggetelaacagteetg ettteegeat tgeactttat gaaacaggtt geagggacta ggaaaagggc cacattatta aaattactaa ctgtacagaa attgatttaa aaaagtcaca gctcaaaatt gctctttgta aaagtcacac acatttccaa gtatcaagtc gcagtcctgc ttgtttactt ggattttctt cgcttggatt gcaccgcact ggttatgtct ttagtagagc 1480at 1 to 15 tggaggetga ageaggtega gaagategtt taegatgtee atttteeaca ettteagagg 540 ccacagttgg ctcttcagtt cgggagtttc ttcggcctgg gatttggact tttcaactat 600 etetttggge teactgettt gtecagagae tatggeagea tttaceteeg etttgggetg 660 gcaacagang cctgcaatgc tgngggttga agttcctttt gagactaaat tctggcgacn 720 780 gggctttgct gggggtaaag ttct 804

<210> 373

<211> 792

<212> DNA

<213> Homo Sapiens

<400> 373

gccggccgcc cgcgccgcc cgccgctgc cccagctcga ggaggacatc gcggccaagg 60 agaagttgct gcgggtgtcg gaggacgagc gggaccgggt gctggaggag ctgcacaagg 120 cggaggacag cctcctggcc gccgaagagg ccgccgcaa ggctgaagcc gacgtagctt 180 caacagcttt gcagaagctg gaggaagctg agaaggttgga tcgtgcccag gagcgtctgg 240 caacagcttt tgagagtcga gcccaaaaag atgaaggaag aatggaagtt gagagaggca 300 aactgaaaga ggcaaagca attgctgaag atgccgaccg caaatatgaa gaggtggcc 420

VV ひ ファノリマルひご

A シエノシロフロ/スマリノノ

```
gtaagetggt catcattgag agegacetgg aacgtgcaga ggageggget gagetetcag
                                                                                                                              480
aaggccaagt ccgacagctg gaagaacaat taagaataat ggatcagacc ttgaaagcat
                                                                                                                              540
taatggctgc agaggataag tactcgcaga aggaagacag atatgaggaa gagatcaagg
                                                                                                                              600
teettteega caagetgaag gaggetgaga etegggetga gttttgegga aaaggteagt
                                                                                                                              660
aactaaantt ggagaaaaag catttgatga cttagaagaa gaaagtggct tcatgcccaa
                                                                                                                              720
agaagaaaan cttatatgca tcaanatgct ggatcagact ttactggagt taaaccacat
                                                                                                                              780
gtgaaaaact tc
                                                                                                                              792
           <210> 374
           <211> 745
           <212> DNA
           <213> Homo Sapiens
           <400> 374
agccgataac agtagaactc tgaacgtgga ttccactgca atgacactac ctatgtctga
                                                                                                                                60
tecaactgca tgggccacag caatgaataa tettggaatg gcaccgetgg gaattgeegg
                                                                                                                              120
acaaccaatt ttacctgact ttgatcctgc tcttggaatg atgactggaa ttccaccaat
                                                                                                                              180
aactccaatg atgcctggtt tgggaatagt acctccacca attcctccag atatgccagt
                                                                                                                              240
agtaaaagag atcatacact gtaaaagctg cacgetette cetecaaate caaateteee
                                                                                                                              300
acctcctgca acccgagaaa gaccaccagg atgcaaaaca gtatttgtgg gtggtctgcc
                                                                                                                              360
tgaaaatggg acagagcaaa tcattgtgga agttttcgag cagtgtggag agatcattgc
                                                                                                                              420
cattogoaag agcaagaaga acttotgoca cattogottt gotgaggagt acatggtgga
                                                                                                                              480
caaagccctg tatctgtctg gttaccgcat tcgcctgggc tctagtactg acaagaagga
                                                                                                                              540
cacaggcaga ctccacgttg atttcgcaca ggctcgagat gacctgtatg agtgggagtg
                                                                                                                              600
taaacagcgt atgctagcca gagaggagcg ccatcgtaga agaatggaag aagaaagatt
                                                                                                                              660
gegtneacea thtteacece cagtggteac tatttagate atgaatgeag cattggtget
                                                                                                                              720
gaaaaaataa aaggaggatt ccaaa
                                                                                                                              745
                                       <210> 375 🔞
                                     THE DESIGNATION OF THE PROPERTY OF THE PARTY        <213> Homo Sapiens
                                                                                   LO BESSOLO D
                              The second section of the second second
                                                                                  1995 ($13 grad
           <400> 375
gaggtataaa aaggaatatt tatettttaa aaatacaact ttgaacacta ctggcatete
                                                                                                                                60
atttacaaag tatttttgtg aaatactctc cattggcttt gcttgctcag tacattcttt
                                                                                                                              120
tatcttcaat tgagactcaa gggagggtat gcttgcatta ttataaatac cacaaccacc
                                                                                                                              180
accacacaca ataaagacca tototgooto aggacattog coccaaacct coatcototo
                                                                                                                              240
tgtttacttt ccaccaagca gaagtttctg aatggtccac tcacatgctg ccattgcgat
                                                                                                                              300
ttgccgatgg gcactaccaa ggtgtctctg gcaattcgca ctccaggtgg agctgaccta
                                                                                                                              360
tttgtagaaa gcctcacaaa ccctagctca ttatttattc attgattcat tactattaat
                                                                                                                              420
acttatatca agtetttgca aacattcage atgaagtaaa catagtattt acagcagtae
                                                                                                                              480
teggtttgca atteaacaca etgacaacag aagcaaaggg accaacagac tgtaagaagg
                                                                                                                               540
ccagagggga aagaatatta atataaatcc cttctgccac tgtgtgccgt gccgtgtgtg
                                                                                                                               600
 tgtttgtgcg tgtgtgccca cacatgagca tattttaatt cacagaaaaa ctgaaacatg
                                                                                                                               660
 eceteettta aaageagaet atttacaagt gattetgaat ageatgaaca catgecagne
                                                                                                                               720
atactggaaa cttg
                                                                                                                               734
           <210> 376
            <211> 822
            <212> DNA
            <213> Homo Sapiens
            <400> 376
```

-212-

ggctgatcag tgttctagaa cagatcagac attttgtaat gatgcctgaa ataaacacta

11 U 77/07403

▲ ○ # | ∪ □ ノ ∪ | 1 → ∪ | ノ

```
accacctcga caagcaacag gttcaactcc tggcagagat gtgtatcctt attgatgaaa
                                                                      120
 atgacaataa aattggagct gagaccaaga agaattgtca cctgaacgag aacattgaga
                                                                      180
 aaggattatt gcatcgagct tttagtgtct tcttattcaa caccgaaaat aagcttctgc
                                                                      240
 tacagcaaag atcagatgct aagattacct ttccaggttg ttttacgaat acgtgttgta
                                                                      300
 gtcatccatt aagcaatcca gccgagcttg aggaaagtga cgcccttgga gtgaggcgag
                                                                      360
 cagcacagag acggctgaaa gctgagctag gaattccctt ggaagaggtt cctccagaag
                                                                      420
 aaattaatta tttaacacga attcactaca aagetcagte tgatggtate tggggtgaac
                                                                      480
 atgaaattga ttacattttg ttggtgagga agaatgtaac tttgaatcca gatcccaatg
                                                                      540
 agattaaaag ctattgttat gtgtcaaagg aagaactaaa agaacttctg aaaaaagcag
                                                                      600
 cccagtggtg aaattaagat aacgccatgg tttaaaatta ttgcagcgac ttttctcttt
                                                                      660
 aaatggtggg ataacttaaa tcatttgaat caagtttggt gacccatgag aaaatatacn
                                                                      720
 gaatggggaa tatgtaggta aatggattac ccgaaaaaan ttatctgntt aacaaactta
                                                                      780
 gaaaggettt ttneetttta aattaagtte tateattaaa tt
                                                                      822
       <210> 377
       <211> 812
       <212> DNA
       <213> Homo Sapiens
       <400> 377
gcaagaaata aatttttatt tttcttcatt atcatacagc atttaagaat aataaatctg
                                                                       60
 tettgaggtt teaaatetga gatatetatg geaagtttat aaaaagtaca-ttgateaagg
                                                                     120----
tacaattttt aacattaata tacacattcc ataatctcat ctatttaaca ttaacacagg
                                                                      180
cctttgttgt tgttattttt ttctccctac aatatttcct gactctgtag gacagtggtc
                                                                      240
ctcagttggg ggttgactct gtcccctagg ggcatctggc aacatccggc ataactgtgg
                                                                      300
gtgtcacatg agagggacgc tgctcaccat cctgcaatgc acagcacaga ccccaccaca
                                                                      360
ggggttttat ccagcccaaa tgtcaacagt gtcaagttta agcaactctt accgagtggg
                                                                     420
actcaattcc cattttatga acacctctgt gctcactgta attctgaaaa cacagacttt
                                                                     4.80
gotaactggt;aaatactatt tacaagaaga ttcaacctaa tcaatatcac ttatcaaaag epsha540ggmene (ha
reagtiggetganetgtaagtat caacatgttt coagaatgaa taaaccacac aatcaactca aagt600tganetganet
gaatgataca aattagggte catateattt aattteeett gaaeetgete tgetaggtta ( ) 38660 ach achte
ったtgeacaattにttetgaacta tgagaaaaat ttaaaggate entaaagene etggeaaaa / (本資本) 80 (をおいった) にっ
gccaaggccc tttgcaaagg gcttccggaa aa
                                                                  1...812
      <210> 378
      <211> 870
      <212> DNA
      <213> Homo Sapiens
      <400> 378
aaaatttaag ccaactctta ttcaactttt cttcttcaca gcagctgttt atagatagta
                                                                       60
gggagccaag aatgaaggac agtaacagat ggaaagcaaa aagtacaaca gctatcttaa
                                                                     120
gitcagctct caacattgct ggttgagttt ggaaccaaaa cctcttaaca actggcagat
                                                                     180
aatagctaaa tettaacaga caaagaagaa atattttett tgggacaget getatetaga
                                                                     240
agaaaaccaa ggtcccttaa tatagtctaa atataatgtg tggcttatta tagagaaatc
                                                                     300
tttagcaacg taagtttaac cagtaagtgt cacaactgat caacagtact taaaaggaaa
                                                                      360
caaacaaaaa tcacactagc cacaaatttc caccatatac acatgaaatt aattttaatc
                                                                     420
tgttttgact ccttgacact aactgatcat taatgaaata tgatatggaa agatcacaga
                                                                     480
gtagaaaaca agcaaagatt agtttataca acagtgacta tatacatcag agggaaaaca
                                                                     540
tgctagctaa tgcaacatta aggcctgaat gtaagcattt cccaagtcac agaagcccca
                                                                     600
aagaactcct aaattacaaa ttcatcacat tacatgcatg caatggtcac ttttggttta
                                                                     660
cccataaaag gatacncagt attttgctgn aaataccagg accacattta caatatatgc
                                                                     720
aaaaaattag aatgcagngg taagnteett anatttaage eeteatatgn gneaacaggg
                                                                     780
gaaaatteca tttattttta agaaaggaaa aanggagaen gggatataaa taeteggaga
                                                                     840
```

```
870
```

<210> 379 <211> 837

<212> DNA

<213> Homo Sapiens

<400> 379

gaggagaggt caaccgtcgt agcgccaata acttctactc catgatccag tcggccaaca 60 gccatgtccg ccgcctggtg aacgagaaag ctgcccatga gaaagatatg gaagaagcaa 120 aggagaagtt caagcaggcc ctttctggaa ttctcattca atttgagcag atagtggctg 180 tgtaccattc cgcctccaag cagaaggcat gggaccactt cacaaaagcc cagcggaaga 240 acatcagcgt gtggtgcaaa caagctgagg aaattcgcaa cattcataat gatgaattaa 300 tgggaatcag gcgagaagaa gaaatggaaa tgtctgatga tgaaatagaa gaaatgacag 360 aaacaaaaga aactgaggaa tcagccttag tatcacaggc agaagctctg aaggaagaaa 420 atgacageet cegttggeag etegatgeet aceggaatga agtagaactg eteaagcaag 480 aacaaggcaa agtccacaga gaagatgacc ctaacaaaga acagcagctg aaactcctgc 540 aacaagccct gcaaggaatg caacagcatc tactcaaagt ccaagaggaa tacaaaaaga 600 aagaagetga aettgaaaaa etcaaagatg acaagttaca ggtggaaaaa atgttggaaa 660 atcttaaaga aaaggaaagc tgtgcttcta ngctgtgtgc ctcaaaccag gatagcgaat 720 accetnttga gaaagaccat gaacagcagt cetatcaaaa tettgaaccg tgaagcactg 780 gttagtgggg gattatette cacantteet teatggteae eccatttgga gecagee 837

<210> 380

<211> 793

<212> DNA

<213> Homo Sapiens

<400> 380

はは代づたか。

gttgcttagt ttcaggagtt ctctacatat tctggatatt aattcctttt catatatatg 60 atttgcaaat attttctccc attctgtggg gttttttttac tttgttgata ttgtcttttg 120 agacacaatt ttttttaatt ttcatgaagt ccaatttgtc tattttttt cttttgttgc 180 ctattttgtg tcatcctcaa gaaaccatta#ccaaatccag:tgttttgaag cttttcccat 240 atgttttatt ctaagagcct tatggtttta ggccttacat ttaggccttt gatccatttt 300 gagttaattt ttgtatatgg tgttaggtaa ggacccaact tccttgtttg gcatgtggat 360 atccaatttt cctaccacca tttgtttgaa aagattgtcc tttccccatt gaatggtctt 420 ggtagccttg tcaaaagtca actgatcata catcttattt atttccggcc tccctaatct 480 attctatcag actatatgtc tgtctttatg ccagtaccac attgttttga ttactgttag 540 tocatottta ttatataaaa toatgattao aagotoatao tataatatta tattttatao 600 660 ttttccaaat cttccatagc attgngttct tcttccacta aaaagcagac cgtttagagg tataataagt agcctgaagt gggcaagtaa tgaaacaaac ttgagaatta cataaccttn 720 cagctataga gttcataatg gcccgaaagg gtaaagactg caggncgctt aattnccagg 780 793 cttttcacca ggc

<210> 381

<211> 807

<212> DNA

<213> Homo Sapiens

<400> 381

aqaacaccct cttagatgtc ttgttctgtg tgcccaagta catgccggaa tgtggagaag 60 aaatgggtte tetetagtaa accagattta ttaetaceat aatgtgaaat geagaegtga 120 gatgtttgac aaggatgtag taatgcttca gacaggtgtc tccatgatgg atccaaatca 180 tttcctgatg atcatgctca geogetttga actttatcag attttcagta ctccagacta 240 tggaaaaaga tttagttctg agattaccca taaggatgtt gttcagcaga acaatactct 300 マヤ ♥ プフ/ひせんひご

1 C 1/ U020/190/2

```
aatagaagaa atgctatacc tcattataat gcttgttgga gagagattta gtcctqqaqt
                                                                                                                      360
tggacaggta aatgctacag atgaaatcaa gcgagagatt atccatcagt tgagtatcaa
                                                                                                                      420
gcctatggct catagtgaat tggtaaagtc tttacctgaa gatgagaaca aggagactgg
                                                                                                                      480
catggagagt gtaatcgaag cagttgccca tttcaagaaa cctggattaa caggacgagg
                                                                                                                      540
catgtatgaa ctgaaaccag aatgtgccaa agagttcaac ttgnatttct atcacttttc
                                                                                                                      600
aagggcagaa cagtccaagg cagaagaagc gcaacggaaa ttgaaaagac naaatagaga
                                                                                                                      660
agatacagca cttccacctt ccggggttgn ctncattctg gcctctggtt gcaagcctgg
                                                                                                                      720
gtaacanttt gcagtcagat gtcatggtgn gcatcatggg gaaccaattn tgcaatgggc
                                                                                                                      780
tgtggaacca taaanggata tgcctgg
                                                                                                                      807
          <210> 382
          <211> 800
          <212> DNA
          <213> Homo Sapiens
          <400> 382
aagtttaaat aaagaattta tttccaaatt cagcagaact tctttctttc ttaaaaagcc
                                                                                                                       60
aactgggtta aaaaaatcca agtttgtgtt ttttggtggt gcaataatta taaatgttqc
                                                                                                                      120
cagtcaatgc caaccagtgt ctgattggct tcctgtgcat gtccaatttc ctctgtgaca
                                                                                                                      180
ctgtgttggt gccagagctt ctgaatcttc ttgaatcgct ctttgcataa atgtaaagga
                                                                                                                      240
tttccccgtc tgagtccctg gtcggtctcc ccatagtcat caaggtaagg aggagaataa
                                                                                                                      300
aaacagoott tggttttgcc agotaaaaat agoacotgac attooogtac totoaggaag
                                                                                                                      360
atgcccactc cagagccaca ggagtaggtg tgagctgtgc aggctcctac atcctcccct
                                                                                                                      420
tecagtteag tetggeagea gtaactetgg gageacagea gagateegea cacaaggeae
                                                                                                                      480
agagttgggg ctctgctctt atcaccacct gatttcgggc acgagaaatt ggatgcttga
                                                                                                                      540
ttaatgaggc tgctgtaatc ctctggaagg tttattaatt tgttaagatt ctcttggata
                                                                                                                      600
tettatagea tetetttea eettetagaa afettttaae ttteaetggt aeeggeacea
                                                                                                                      660
acntttcaat cagggaattc antatctcac tattttcttt gaaaaaggca aatggaggtt
                                                                                                                      720
ggtttgggta agggaaagga aaggcttccn taaaaggttc aaaaagggct tngttnccag
                                                                                                                      780 ुर्व अध्यक्ष्मां क
gnaaccttgn_aatgtcgggt .....
                                                    Sec. 258 Sec. 2000
                                                                                                                     产800萬為农利法的發展和企業
    のためは、1967年(新日本語の1967年) 1972年 - 1972年
                                                         11616
                                                                                                                     Çeji de ni alayevî çelektara b
     tat y<210%p383%partAmma a mili
                                                       1.47 (Z.,..U.)
                                                                                                                    THE THE DATE OF THE PARTY OF THE
      · /<211>01203 (***) / (*** )
                                                                                                                           "是你是你只要还要是一个
          <212> DNA
                                                                                                                                <213> Homo Sapiens
                                                                                                                                 1 m 2 45 1
         '<400> 383
ctgacateta caccgaggte cgcgagetgg tgageetcaa geaggageag caggetttea
                                                                                                                        60
aggaggegge cegacaegga geggetegee etgeaggeee teaeggagaa getteteagg
                                                                                                                       120
tetgaggagt cegteteceg ceteceggag gagateegga gaetggagga agageteege
                                                                                                                       180
cagctgaagt ccgattccca cgggccgaag gaggacggag gcttcagaca ctcggaagcc
                                                                                                                       240
tttgaggcac tccagcaaaa gagtcaggga ctggactcca ggctccagca cgtggaggat
                                                                                                                       300
ggggtgctct ccatgcaggt ggcttctgcg cgccagaccg agagcctgga gtccctcctg
                                                                                                                       360
tecaagagee aggageacga geagegeetg geegeeetge aggggegeet ggaaggeete
                                                                                                                       420
gggtcctcag aggcagacca ggatggcctg gccagcacgg tgaggagcct gggcgagacc
                                                                                                                       480
cagctggtgc tctacggtga cgtggaggag ctgaagagga gtgtgggcga gctccccagc
                                                                                                                       540
accegtggaa teactecaga aggtgeagga geaggtgeac aegetgetea gteaggacea
                                                                                                                       600
agcccaggcc gcccgtctgc ctcctcagga cttcctggac agactttctt ctctagacaa
                                                                                                                       660
cctgaaagcc tcagtcagcc aagtggaggc ggacttgaaa atgctcagga ctgctgtgga
                                                                                                                       720
cagtttggtt gcatactcgg tcaaaataga aaccaacgag aacaatctgg aatcagccaa
                                                                                                                       780
gggtttacta gatgacctga ggaatgatct ggataggttg tttgtgaaag tggagaagat
                                                                                                                       840
 tcacgaaaag gtctaaatga attgcgtgtg cagggcgcgg atttaaagtc caatttctca
                                                                                                                       900
 tgaccaaaaa atgtgtggtt ttttcccatg tgtcccctac cccccaattt cttgtcccct
                                                                                                                       960
 cttaaagagc agttgtcacc acctgaacac caaggcattg tattttcatg cccagttaac
                                                                                                                     1020
 ttatttacaa tatttaagtt ctctgcttct gcatttggtt ggtttcctga agcgcagccc
                                                                                                                     1080
```

71 U 77/U44U3 1 L 1/U370/14U/7

ctgtgaataa caggtggctt ttcatggatg tctctagtca gagaaaaatg ataaaggctt 1140 aaattgagga ttaacagaag cagattaacc tcagaaatcc tgtctggctg gcagatttca 1200 agt

<210> 384 <211> 2651 <212> DNA <213> Homo Sapiens

<400> 384

cctggctgca gagtacccca ccagcgcggt tcatagtggc gtcatgcacg cagactcctg 60 caagtteece taagttetta gaggaetget ttgeettttg atetgagagt tgeaaagtte 120 cataaagaat ggcccttgtg gataagcaca aagtcaagag acagcgattg gacagaattt 180 qtqaaqqtat-cegececcag-atcatgaacg-gcccctgca-ccccgcccc-ctqqtqqcqc-24-0tgctggacgg ccgcgactgc actgtggaga tgcccatcct gaaggacctg gccactgtgg 300 cettetgtga egegeagteg aegeaggaaa tecaegagaa ggttetaaac gaageegtgg 360 gegecatgat gtaccaeace ateaceetea ceagggagga cetggagaag tteaaggeee 420 tgagagtgat cgtgcggata ggcagtggct atgacaacgt ggacatcaag gctgccqqcq 480 agctcggaat tgccgtgtgc aacatcccgt ctgcagccgt ggaagagaca gcggactcta 540 ccatctgcca catcctcaac ctgtaccgga ggaacacgtg gctgtaccag gcactgcqqq 600 aaggcacgcg ggttcagagc gtggagcaga tccgcgaggt ggcctcggga gcggcccgca 660 tccgtgggga-gaegetggge-etcattggct-ttggtegcae-ggggeaggcg-gttgcagttc----7-20gagecaagge etttggatte agegteatat tttatgacee etaettgeag gatgggateg 780 ageggteect gggegtgeag agggtetaea ceetgeagga tittgetgtat cagagegaet 840 gcgtctcctt gcactgcaat ctcaacgaac ataaccacca cctcatcaat gactttacca 900 taaagcagat gaggcaggga gcattccttg tgaacgcagc ccgtggcggc ctggtggacg 960 agaaagcctt agcacaagcc ctcaaggagg gcaggatacg aggggcagcc ctcgacgtgc 1020 atgagtcaga gccctttagc tttgctcagg gtccgttgaa agatgcaccg aatcttatct 1080: gcactcetca: cactgcctgg tacagcaage aggegtcact ggagatgagg gaggcagetg *11140 to 1 = 1 action (c) s deactgagat@cegeegagee ateacaggte:acateceaga aagettaaga aaetgtgtga- .೧೬೭೦೦೪೫೬೭೧ರಂಭು ೧೯ acaaggaattaatctgtcaca tcagcgccttaggtcagtaat agaccagcaa gcaattcatc - 1260attb. At the constant ctgagcteaaltggtgccaca tacagatate/cgccaggcat cgtgggcgtg gctccaggag. Taag200aattragcount gaetteetgekageeatggaa gggateatee eetgnaagge ateceagtga eteacaacee i 11380t@magaeace tecegacagt ggcacatect tteceaaggg cettnteeca accageecae aaaacaeggg 1440 gccaatcgag agcaccccaa cgagcaatag cagagaatgc cagaaggtaa tcactcagat 1500(a) (data : acacttggga ccaagagnca gtgaaaaata gatgaactaa gagaaaaaga atcggatqqt 1560 ctttgtaact tgattctgga catatgcatc attgatgttg cagtgttgaa actacaaqaq 1620 ctagaaaact gaagatgtcg tctgcttacg gaagcgctga aagactagga tgtgatttat 1680 taacgaccaa cttctgttat tgtgtgttaa gtttttcatc tgtgcatcaa atcacaaaaa 1740 gaataaatag agetttttee tttateagte eettgggeae ageaggteet gaacaceetg 1800 ctctacaatg ttgcatcaag agttcaaaca acaaaataaa aaatattaag aggaaatccc 1860 catectgtga ettgagtece ttaagtetae aggggetggt gacetetttt tgetaatagg 1920 aaaatcacat tactacaaaa tggggagaaa actgtttgcc tgtggtagac acctqcacqc 1980 ataggattga agacagtaca ggctgctgta cagagaagcg cctctcacat ctgaactgca 2040 tactgagegg geaagteggt tgtaagttea gtaaaaceet etgatgatge aaaaaaaaa 2100 aaaaagtatt aagtttcaca agctgtttgt actcaaatat attttctcag tttcagatcc 2160 totgctattt tattgagtgg aaagtottga gctaaaaggg ttcaagaaga ataatgttgc 2220 atttccttat gtctcaggaa acacttttta tggtaacttg tcagattgtc tatgaacaaa 2280 cccacttttt tagacattga taaagtcttc ttcacgtgat attttataca agaacacttc 2340 agatgtatta gatgtgactg attttaacaa atcctattag atttgtatca actagttaca 2400 tgttctattc atagtctttt gtgaatcatt gcctttttgt ttaaaaaqat qqcctatttt 2460 gagcetttgt ataggtacat teetgttttt gtgacaaaag aaaaacttta aaattgteee 2520 2580 tatttgttta ttgtaaaggt ggacatttag cgttcagtgc agttttcaat aaaaagtaat 2640 taaaatttgt t 2651

```
<210> 385
                                             <211> 804
                                            <212> DNA
                                             <213> Homo Sapiens
                                             <400> 385
                             cetggetgea gagtaceeca ceagegeggt teatagtgge gteatgeacg cagacteetg
                                                                                                                                                                                                                   60
                             caagtteece taagttetta gaggaetget ttgeettttg atetgagagt tgeaaagtte
                                                                                                                                                                                                                120
                             cataaagaat .ggcccttgtg gataagcaca aagtcaagag acagcgattg gacagaattt
                                                                                                                                                                                                                180
                             gtgaaggtat ccgccccag atcatgaacg gcccctgca ccccgccc ctggtggcgc
                                                                                                                                                                                                                240
                             tgctggacgg ccgcgactgc actgtggaga tgcccatcct gaaggacctg gccactgtgg
                                                                                                                                                                                                                300
                             ccttctgtga cgcgcagtcg acgcaggaaa tccacgagaa ggttctaaac gaagccgtgg
                                                                                                                                                                                                                360
                             gegecatgat gtaccacace ateacectea ecagggagga cetggagaag tteaaggeee
                                                                                                                                                                                                                420
                             tgagagtgat_cgtgcggata_ggcagtggct_atgacaacgt_ggacatcaag_gctgeeggeg
                                                                                                                                                                                                                4-8-0-
                             agctcggaat tgccgtgtgc aacatcccgt ctgcagccgt ggaagagaca gcggactcta
                                                                                                                                                                                                                540
                             ccatctgcca catcctcaac ctgtaccgga ggaacacgtg gctgtaccag gcactgcggg
                                                                                                                                                                                                                600
                             aaggcacgcg ggttcagagc gtggagcaga tcccgcgagg tggcctcggg agcgggccgc
                                                                                                                                                                                                                660
                             atnegtgggg agacgettgg geeteattgg etttggteeg caeeggggea ageeggttge
                                                                                                                                                                                                                720
                             agttcgagcc aaggcctttg gattcagcgc atattttatg accctacttt gcanggatgg
                                                                                                                                                                                                                780
                             gategaaceg gtecentgge egtg
                                                                                                                                                                                                                804
                                  ____<210>.3.86
                                            <211> 782
                                            <212> DNA
                                             <213> Homo Sapiens
                                            <400> 386
                gcatcatcag agggttttac tgaacttaca accgacttgc ccgctcagta tgcagttcag
                                                                                                                                                                                                                   60
of the angle and the adaption and the state of the state 
whole gtotaccaca ggcaaacagt tttctcccca ttttgtagta atgtgattttccctattagca 300 180
wards. The aaaagaggto accagoooot gtagacttaa gggactcaag tcacaggatg gggatttoot
                                                                                                                                                                                                                240
www.com.com.cottaatattt.tttattttgt tgtttgaact cttgatgcaa cattgtagagccagggtgttc.ed.
                                                                                                                                                                                                                300
標準の /-4.5 million laggacetget gtgcccaagg gactgataaa ggaaaaaget ctatttattgcttttttgtgat / 19360
                             ttgatgcaca gatgaaaaac ttaacacaca ataacagaag ttggtcgtta ataaatcaca
                                                                                                                                                                                                                420
was a sector to test to age of the contage of the c
                                                                                                                                                                                                                480
                             ttcaacactg caacatcaat gatgcatatg tccagaatca gttacaaaga ccatccgatt
                                                                                                                                                                                                                540
                             ctttttctct tagttcatct atttttcact ggctcttggt cccaagtgta tctgagtgat
                                                                                                                                                                                                                600
                             taccttctgg cattctctgc tattgctcgg tggggtgctc tcgatggccc cgtggtttgn
                                                                                                                                                                                                                660
                             gggctggttg ggaanagggc ncttgggaaa ggaagtgcca ctgtccggaa ggntggtgaa
                                                                                                                                                                                                                720
                             gtcactggga ngcctccagg gatgannccc tttccatggg ntgcaaggaa agncttcctg
                                                                                                                                                                                                                780
                                                                                                                                                                                                                782
                                            <210> 387
                                             <211> 865
                                             <212> DNA
                                            <213> Homo Sapiens
                                             <400> 387
                             agattancnn enggageteg egegeetgea ggtegacaet agtggateea aagetgtate
                                                                                                                                                                                                                   60
                             agagegactg egteteettg caetgeaate teaacgaaca taaccaccae eteateaatg
                                                                                                                                                                                                                120
                             actttaccat aaagcagatg aggcagggag cattccttgt gaacgcaccc cgtggtggcc
                                                                                                                                                                                                                180
                             tggtggacga gaaagcetta gcacaagete tcaaggaggg caggatacga ggggcagece
                                                                                                                                                                                                                240
                             tctatgtgcg tgagtcggag ccctttagct ttgctcaggg tccgttgaaa gatgcaccga
                                                                                                                                                                                                                300
                             atcttatctg cactecteae actgeetggt acageaagea ggegteactg gagatgaggg
                                                                                                                                                                                                                360
```

エーエノ シロノロ・スマロ・ノ

化自复型蒸放电流 医原

420

aggcagetge caetgagate egeegageea teacaggtea cateccagaa agettaagaa

actytytyaa caaggaatta totytoacat cagegeetty yteagtaata gaceagcaag 480 caattcatcc tgagctcaat ggtgccacat acagatatcc gccaggcatc gtgggcgtgg 540 ctccaggagg acttcctgca gccttggaag ggatcatccc tggaggcatc ccagtgactc 600 acaacetece aacagtggea cateetteee aggegeeete teecaaceag eecacaaaac 660 acggggacaa tcgagagcac ttcaacgagc aatagcagag aatgcccgga aggtaatcat 720 tcagatacat ttgggaccna gagatagtga aaaatgatga acttagagaa aaaggaatat 780 gaaggnettt ggaaetggat ettggaetta tgeateattg atgettgeaa gtggttaaaa 840 ctnccaggag ctttgaaaac tggaa 865 <210> 388 <211> 753 <212> DNA <213> Homo Sapiens <400> 388 gagtataang gttaaattct atttaaaaag aaagnccatt aaatcaactt caagttctta 60 nctcatagga ctatttngna ncacttettt gnaaatatea tttngttagg tnatnggeaa 120 ancagtttca nggttcactt ccctcccttg anccaggnec aggneatttn getttggggn 180 aaattaaaat canaattota aaagttganc anctttgttt tttttnaatn gactnanctn 240 tancccacca ttacaactta nggacggcat gactngataa nganggactt gngtgaggtt 300 ttgagttttc aattaanctt tgnatcacat gaggnaatng ncagcattct tgagncnggt 360 tatggaatag gcagatanaa ccctgtagta ccaanagttg gaaatnggct aatngacaac 420 gcactngcct taaacatctc angtagagaa cttttacatt agngagangt ncttgaattt---- 480 cananctcac caaattttaa ttacttttta tngaaaactg cagngaangc taaaggtcta 540 cgtttacaat aaacaaatcc agtancagta actcacactg aaccaaanca tacttctgat 600 agccattatt tttcngcttg gggacaattt taaagntttt cttttggccc aaaaaccngg 660 aatgtatece aaacnaagge teaaaagagg eccatenttt teaaacaaaa aagggeantg 720 gattcncaaa aanactggng aaatagaaca tgg 753 " 人名英格勒斯 建铁铁铁矿 化苯甲基甲基 733 15 5、15.15、16.15数数数约套模型或多值 \$P.50。 <210> 389 . 5 . 4 3) 1.1 日本・日本教養とは発発されていている。 <211> 737 1、10年,整建身上出现农民农工。100亿元 71.2 B. 11.2 <212>: DNA 2.5 <213 > Homo Sapiens <400> 389 aggaaatcca cgagaaggtt ctaaacgaag ccgtgggcgc catgatgtac cacaccatca 60 ccctcaccag ggaggacctg gagaagttca aggccctgag agtgatcgtg cggataggca 120 gtggctatga caacgtggac atcaaggctg ccggcgagct cggaattgcc gtgtgcaaca 180 tecegtetge ageogtggaa gagacagegg actetaceat etgecacate eteaacetgt 240 accggaggaa cacgtggctg taccaggcac tgcgggaagg cacgcgggtt cagagcgtgg 300 agcagatccg cgaggtggcc tcgggagcgg cccgcatccg tggggagacg ctgggcctca 360 ttggctttgg tcgcacgggg caggcggttg cagttcgagc caaggccttt ggattcagcg 420 tcatatttta tgacccctac ttgcaggatg ggatcgagcg gtccctgggc gtgcagaggg 480 totacaccot goaggatttg otgtatoaga gogactgogt otcottgoac tgcaatotca 540 acgaacataa ccaccacctc atcaatgact ttaccataaa gcagatgagg cagggagcat 600 tccttgtgaa cgcagcccgt ggcggcctgg tggacgagaa agccttagca caagccctna 660 agganggcag gatacnaagg ggcaancett gacgtgcatg agtcaaaane etttagettt 720 737 tgcttaaggg tccgttg <210> 390 <211> 775 <212> DNA

**ママ い** シノ(ひマルひご

5 77 6 6

5 T. 3.

mail in the

Land the state of

* ヘブ・ログンのオイロ・ノ

<213> Homo Sapiens

<400> 390

```
gcatcatcag agggttttac tgaacttaca accgacttgc ccgctcagta tgcagttcag
                                                                        б0
atgtgagagg cgcttctctg tacagcagcc tgtactgtct tcaatcctat gcgtgcaggt
                                                                       120
gtctaccaca ggcaaacagt tttctcccca ttttgtagta atgtgatttt cctattagca
                                                                       180
aaaagaggtc accagcccct gtagacttaa gggactcaag tcacaggatg gggatttcct
                                                                       240
cttaatattt tttattttgt tgtttgaact cttgatgcaa cattgtagag cagggtgttc
                                                                       300
aggacetget gtgeecaagg gaetgataaa ggaaaaaget etatttatte tttttgtgat
                                                                       360
ttgatgcaca gatgaaaaac ttaacacaca ataacagaag ttggtcgtta ataaatcaca
                                                                       420
tectagtett teagegette egtaageaga egacatette agttttetag etettgtagt
                                                                       480
ttcaacactg caacatcaat gatgcatatg tccagaatca agttacaaag accatccgat
                                                                       540
totttttctc ttagttcatc tatttttcac tgnctcttgg tcccaagtgt atctgagtga
                                                                      1600
ttacettetg geattetetg etattgeteg ttggggtget etegattgge ecegtgtttt
                                                                       660
gtgggctggt tggganaagg cccttgggaa aggatgtgcc actgtcggga gggttgtgag
                                                                       720
tcactgggat gccttncagg ggatgatccc tttcatggct tggcaggaaa gtctt
                                                                       775
      <210> 391
      <211> 776
      <212> DNA
     <213> Homo Sapiens
      <400> 391
gtggataagc acaaagtcaa gagacagcga ttggacagaa tttgtgaagg tatccgcccc
                                                                        60
cagatcatga acggecect geacecege eccetggtgg-egetgetgga eggeegegae
                                                                       120---
tgcactgtgg agatgcccat cctgaaggac ctggccactg tggccttctg tgacgcgcag
                                                                       180
tcgacgcagg aaatccacga gaaggttcta aacgaagccg tgggcgccat gatgtaccac
                                                                       240
accatcaccc tcaccaggga ggacctggag aagttcaagg ccctgagagt gatcgtgcgg
                                                                       300
ataggcagtg gctatgacaa cgtggacatc aaggctgccg gcgagctcgg aattgccgtg
                                                                       360
tgcaacatcc cgtctgcagc cgtggaagag acagcggact ctaccatctg ccacatcctc
                                                                       420
aacetgtace ggaggaacae gtggetgtae caggeactge gggaaggeae gegggtteag
                                                                       480
agcgtggage agateegega ggtggeeteg ggageggeee geateegtgg ggagaegetg
                                                                       540
ggcctcattg gctttggtcg cacggggcaa gcggttgcag ttcgagccaa ggcctttgga
                                                                       600
ttcagcgtca tattttatga cccctacttg caggatggga tcgagccggt ccctgggcgt
                                                                       660
gcagaaggtc tacaccctgc aggatttgct gtatcagaac cgactgcgtc ttctttcact
                                                                       720
tgcaatntta acgaacataa ccacccactt tatcaatgga cttttcccta aagcca
                                                                       776
      <210> 392
      <211> 909
      <212> DNA
      <213> Homo Sapiens
      <400> 392
aacaaatttt aattactttt tattgaaaac tgcactgaac gctaaatgtc cacctttaca
                                                                        60
ataaacaaat acagtaacgg taactcacac taaaacaaaa catacttctg atagccatta
                                                                       120
tttttctgtt tgggacaatt ttaaagtttt tcttttgtca caaaaacagg aatgtaccta
                                                                       180
tacaaaggct caaaataggc catctttta aacaaaaagg caatgattca caaaagacta
                                                                       240
tgaatagaac atgtaactag ttgatacaaa tctaatagga tttgttaaaa tcagtcacat
                                                                       300
ctaatacatc tgaagtgttc ttgtataaaa tatcacgtga agaagacttt atcaatgtct
                                                                       360
aaaaaagtgg gtttgttcat agacaatctg acaagttacc ataaaaagtg tttcctgaga
                                                                       420
cataaggaaa tgcaacatta ttcttcttga accettttag ctcaagaett tccactcaat
                                                                       480
aaaatagcag aggatctgaa actgagaaaa tatatttgag tacaaacagc ttgtgaaact
                                                                       540
taatactttt ttttttttt tgcatcatca gagggtttta ctgaacttac aaccgacttg
                                                                       600
cccgctcagt atgcagttca naagtganag gcgcttctct gtacagcaac ctggactggc
                                                                       660
ttcaatccta tgcgtgcagg tgtctaccca gggcnaacag ttttctcccc attttggtag
                                                                       720
taatggggat tttcctatta gccaaaaaag angtcaccag nccctgnaga cttaaaggga
                                                                       780
cctcaaggtc nccaggaatg ggggatttcc ctcntaaaaa atttttaatt ttggggggtt
                                                                       840
gnaactcttg gangccacca tttgtaaaac canggggttc aagaacctgg ntgggcccca
```

A WAI UUJUI ARUIJ

900

agggacctg 909 <210> 393 <211> 769 <212> DNA <213> Homo Sapiens <400> 393 caaattttaa ttactttta ttgaaaactg cactgaacgc taaatgtcca cctttacaat 60 120 tttctgtttg ggacaatttt aaagtttttc ttttgtcaca aaaacaggaa tgtacctata 180 caaaggetea aaataggeea tetttttaaa caaaaaggea atgatteaca aaagaetatg 240 aatagaacat gtaactagtt gatacaaatc taataggatt tgttaaaatc agtcacatct 300 aatacatctg aagtgttctt gtataaaata tcacgtgaag aagactttat caatgtctaa 360 aaaagtgggt ttgttcatag acaatctgac aagttaccat aaaaagtgtt tcctgagaca 420 taaggaaatg caacattatt cttcttgaac ccttttagct caagactttc cactcaataa 480 aatagcagag gatctgaaac tgagaaaata tatttgagta caaacagctt gtgaaactta 540 atactttttt ttttttttg catcatcana gggttttact gaacttacaa ccgacttgcc 600 egeteagtat geeagttean atgtgaaagg egettttntg teageageet gnaetggett 660 caateetatg egtgeaggng tttacceaea ggeaaacagg ttttetnece catttttgga 720 agtaatgggg attttcctat tagcaaaaaa gaaggncacc aancccctg 769 <210> 394 <211> 813 <212> DNA <213> Homo Sapiens <400> 394 ggaagatggc ggagctgcgc gtgctcgtag ctgtcaagag ggtcatcgac tacgccgtga 出版格6.0.特殊的 可提得的 电键 agatoogagt gaagootgao aggaooggtg tggtoaogga tggtgtgaag cactocatga an431202881 gaaga it accepttetg tgagategeg gtggaggagg ctgtgegget caaggagaag aagetggtga 441800489 (1448) aggaggteat egeogteage tgtgggcetg cacagtgeca ggagaegatt egtacegeee . / 88240 886 - 29 089000 tggccatggg tgcagaccga ggtatccacg tggaggtgcc cccagcagaa gcagaacgct 186300.999, 5905940 tgggtcccct gcaggtggct cgggtcctgg ccaagctggc agagaaggag aaggtggacc 360 tggtgctgct gggcaaacag gccatcgatg atgactgtaa ccagacaggg cagatgacag 420 70 70 70 10 ctggatttct tgactggcca cagggcacat tcgcctccca ggtgacgctg gagggggaca 480 agttgaaagt ggagcgggag atcgatgggg gcctggagac cctgcgcctg aagctgccag 540 ctgtggtgac agctgacctg aggctcaacg agccccgcta cgccacgctg cccaacatca 600 tgaaagccaa gaagaagaag atcgaggtga tcaagcctgg ggacctgggt gtggacctga 660 cetecaaget etetgtgate agtgtggagg accegeecea gegeaeggee ggegteaagg 720 tggagaceae tgaggacetg gtggccaage tgaaggagat tgggeggatt tgageeeete 780 ccagagatgg caataaaact gactctcaac atc 813 <210> 395 <211> 762

<212> DNA

<213> Homo Sapiens

<400> 395

ggaagatggc ggagctgcgc gtgctcgtag ctgtcaagag ggtcatcgac tacgccgtga 60 agateegagt gaageetgae aggaeeggtg tggteaegga tggtgtgaag cacteeatga 120 acccettetg tgagategeg gtggaggagg etgtgegget caaggagaag aagetggtga 180 aggaggteat egeegteage tgtgggeetg caeagtgeea ggagaegatt egtaeegeee 240 tggccatggg tgcagaccga ggtatccacg tggaggtgcc cccagcagaa gcagaacgct 300 tgggtcccct gcaggtggct cgggtcctgg ccaagctggc agagaaggag aaggtggacc 360

60 tggccaccag gtcctcagng gtctccacct tgacgccggc cgtgcgctgg ggcgggtcct 120 ccacactgat cacagagage ttggaggtca ggtccacacc caggtcccca ggcttgatca 180 cctcgatctt cttcttcttg gctttcatga tgttgggcag cgtggcgtag cggggctcgt 240 tgagceteag gteagetgte accaeagetg geagetteag gegeagggte tecaggeece 300 categatete eegetecaet tteaacttgt eeecetecag egteacetgg gaggegaatg 360 tgccctgtgg ccagtcaaga aatccagctg tcatctgccc tgtctggtta cagtcatcat 420 cgatggcctg tttgcccagc agcaccaggt ccaccttctc cttctctgcc agcttggcca ----480---ggacccgagc cacctgcagg ggacccaagc gttctgcttc tgctgggggc acctccacgt 540 ggataceteg gtetgeacee atggeeaggg eggtaceaat egteteetgg caetgtgeag 600 gcccacagnt gacggcgatg accttccttc accaagcttt tttctccttt gagccggaca 660 ggcctcttca acgggatctt caccanaaag gggttcatgg gagngcttaa aaccatccgn 720 gaacccaccg gnccttgtna ggctttactt cggatctttn acnggggaat cgatgaccen 780 ttttgacagg tacgaacccc cgccagnttc ggcattttcc tt 822 。 14.多层有毒的 数,是提出。 4.65。 15. 医性性感染的 [15] (多麗) 44. (15) (4)

一个一个多多的基础的基础。 "就是是一个这个人

心中心痛闷痛中惊叹,甚至是此,这个心

一、"大多意义的人""我是国家人工工"。

(2) 人工工程等等等等。如果可以是可以还可以

- 042494-4-210> 397. - 444-15-211> 812

www.same.<213> Homo Sapiens was a

of September 1

and the state of t

<400> 397

gatgttgaga gtcagtttta ttgccatctc tgggaggggc tcaaatccgc ccaatctcct 60 tcagcttggc caccaggtcc tcagtggtct ccaccttgac gccggccgtg cgctggggcg 120 180 tgatcacctc gatcttcttc ttcttggctt tcatgatgtt gggcagcgtg gcgtagcggg 240 gctcgttgag cctcaggtca gctgtcacca cagctggcag cttcaggcgc agggtctcca 300 ggcccccatc gatctcccgc tccactttca acttgtcccc ctccagcgtc acctgggagg 360 cgaatgtgcc ctgtggccag tcaagaaatc cagctgtcat ctgccctgtc tggttacagt 420 catcatcgat ggcctgtttg cccagcagca ccaggtccac cttctccttc tctgccagct 480 tggccaggac ccgagccacc tgcaggggac ccaagcgttc tgcttctgct gggggcacct 540 ccacgtggat acctcggtct gcacccatgg ccagggcggt acgaatcgtc tcctggcact 600 gtgcaggccc acaagctgac gggcgatgaa cctccttcac cagcttcttc tccttgagcc 660 cgcacagect tetteacege gateteacag gaaggggtte atggagtget tacaaccate 720 eggngaccae acegggeeet gteaggettt aacteggant etttacgggg taategnntg 780 gacctttttg acaagctacc aagcaccccg ca 812

<210> 398

<211> 751

<212> DNA

<213> Homo Sapiens

```
<400> 398
gatgttgaga gtcagtttta ttgccatctc tgggaggggc tcaaatccgc ccaatctcct
                                                                        60
ttngcttggc caccaggtcc tcagtggtct ccaccttgac gccggccgtg cgctggggcg
                                                                       120
ggtcctccac actgatcaca gagagettgg aggtcaggtc cacacccagg tccccagget
                                                                       180
tgatcacctc gatcttcttc ttcttggctt tcatgatgtt gggcagcgtg gcgtagcggg
                                                                       240
gctcgttgag cctcaggtca gctgtcacca cagctggcag cttcaggcgc agggtctcca
                                                                       300
ggcccccatc gatctcccgc tccactttca acttgtcccc ctccagcgtc acctgggagg
                                                                       360
cgaatgtgcc ctgtggccag tcaagaaatc cagctgtcat ctgccctgtc tggttacagt
                                                                       420
cateategat ggeetgtttg eccageagea ceaggteeae etteteette tetgeeaget
                                                                       480
tggccaggac ccgagccacc tgcaggggac ccaagcgtnc tgcttctgct gggggcacct
                                                                       540
ccacgtggat acctcggtct gcacccatgg ccagggcggt acnnaatcgn ctcctggcac
                                                                       600
tgtgcaggcc cacaagntga cggggaatga cctccttnac caagcttntt ntccttgacc
                                                                       660
cgaaaagctt cttcaccgng aacttncaga angggttcaa tggantgctt tacacattcg
                                                                       720
ggaccacccc cgggccttgt caggctttaa t
                                                                       751
      <210> 399
      <211> 800
      <212> DNA
      <213> Homo Sapiens
      <400> 399
agatgttgag agtcagtttt attgccatct ctgggagggg ctcaaatccg cccaatctcc
                                                                       6.0
ttcagcttgg ccaccaggtc ctcagtggtc tccaccttga cgccggccgt gcgctggggc
                                                                       120
gggtcctcca cactgatcac agagagettg gaggtcaggt ccacacccag gtccccagge
                                                                       180
ttgatcacct cgatcttctt cttcttggct ttcatgatgt tgggcagcgt ggcgtagcgg
                                                                       240
ggctcgttga gcctcaggtc agctgtcacc acagctggca gcttcaggcg cagggtctcc
                                                                       300
aggececcat egateteeeg etceaettte aacttgteee eetceagegt cacetgggag
                                                                       360
gegaatgtge cetgtggeea gteaagaaat ceagetgtea tetgeeetgt etggttacag
teateatega tggcetgttt gedeageage accaggteea ectteteett etetgeeage = 32480
ttggccagga cccgagccac ctgcagggga cccaagcgtt ctgcttctgc tgggggcacc
                                                                   540
ttccacgtgg atacctcggt ctgacccatg gccagggcgg tacgaatcgt ctcctggcac
tgngcangcc cacaagetga eggegatgac etnettnace agettettet nettgagece agettettet
ggacaagnet tetteaaceg ggateteaca agaaggggte atggagtget tteacaceat 4 104.720;
teggganeae aaceggneet gneaaggett naacttggae ntttacggng taateegatg
                                                                      780
aaccettttt gacagntace
                                                                      ∵800
      <210> 400
      <211> 810
      <212> DNA
      <213> Homo Sapiens
      <400> 400
ggaagactga attgaaagaa gatagctcta gcagtgaagc agaggaagaa gaggaggagg
                                                                        60
aagatgatga aaaagaaaag gaggataata gcagtgaaga agaggaagaa atagaaccat
                                                                       120
ttccagaaga aagggagaac tttcttcagc aattgtacaa atttatggaa gatagaggta
                                                                       180
cacctattaa caaacgacct gtacttggat atcgaaattt gaatctcttt aagttattca
                                                                       240
gacttgtaca caaacttgga ggatttgata atattgaaag tggagctgtt tggaaacaag
                                                                       300
tctaccaaga tcttggaatc cctgtcttaa attcagctgc aggatacaat gttaaatgtg
                                                                       360
cttataaaaa atnotnatnt ggotntgngg agtactgtac atcagocaac attgaattto
                                                                       420
agatggcatt gccagagaaa gttgttaaca agcaatgtaa ggagtgtgaa aatgtaaaag
                                                                       480
aaataaaagt taaggaggaa aatgaaacag agatcaaaga aataaagatg gaggaggaga
                                                                       540
ggaatataat accaagagaa gaaaagccta ttgaggatga aattgaaaga aaagaaaata
                                                                       600
```

660

72.0

780

ttaagccctc tctgggaagt aaaaagaatt tattagaatc tatacctaca cattctgatc

aggaaaaaga agttacatta aaaaaccnga agacaatgaa aatctgggcc gaccaagatg

atgacncaac tagggtagat gaatccctca accntaaggt agaactgagg aagaaaaagc

300

**♥♥ シンパレマルシン** I CITUUSUUATUIS gaatcagtta aaagccagat gaaacaaaag gatgaagatc ttgagcgaag actggaacag 360 gcagaagaga agcacctgaa agagaagaag aatatgcaag agaaactgga tgctttgcgc 420 agagaaaaag tecaettgga agagacaatt ggagagatte aggttaettt gaacaagaaa 480 gacaaggaag ttcagcaact tcaggaaaac ttggacagta ctgtgaccca gcttgcagcc 540 tttactaaga gcatgtcttc ccttcaggat gatcgtgaca gggtgataga tgaagctaag 600 660 gaagataatt gcagtgttct aaaggatcaa cttagacaga tgtccatcca tatggaagaa 720 ttaaagatta acatttccag gcttgaacat gacaagcaga tttgggagtc caaggcccag 780 acagaggtcc agcttcagca gaaggtctgt gatactctac agggggaaaa caaagaactt 840 ttgtcccagc tagaagagac acgccaccta taccacagtt ctcagaatga attagctaag 900 ttggaatcag aacttaagag tctcaaagac cagttgactg atttaagtaa ctctttagaa 960 aaatgtaagg aacaaaaagg aaacttggaa gggatcataa ggcagcaaga ggctgatatt 1020 caaaattcta agttcagtta tgaacaactg gagactgatc ttcaggcctc cagagaactg 1080 accagtagge tgcatgaaga aataaatatg aaagagcaaa agattataag cetgetttet 1140 ggcaaggaag aggcaatcca agtagctatt gctgaactgc gtcagcaaca tgataaagaa 1200 attaaagagc tggaaaacct gctgtnccag gaggaagagg agaatattgg tttagaagag 1260 gagaacaana angcttgtgg ttaaaaccca atcagcttat gggaacactt gaaaaccatc 1320 aaaanggaaa catttagnca aaaggencag ttggatteet tggtnaaate etgnettetn 1380 ttccaaatgg atccgagaac cgcntagtgg ggggactatt caccagctgg gaanagccga 1440

1443

11

<210> 404

<211> 819

<212> DNA

<213> Homo Sapiens

### <400> 404

gcgattcaaa gcaaagaaga agaaattaga ctcaaagaag ataattgcag tgttctaaag 60 gatcaactta gacagatgtc catccatatg gaagaattaa agattaacat ttccaggctt 120 gaacatgaca agcagatttg ggagtccaag gcccagacag aggtccagct tcagcagaag 180 gtctgtgata ctctacaggg ggaaaacaaa gaacttttgt cccagctaga agagacacgc 240 cacctatacc acagttctca gaatgaatta gctaagttgg aatcagaact taagagtete 300 aaagaccagt tgactgattt aagtaactct ttagaaaaat gtaaggaaca aaaaggaaac 360 ttggaaggga tcataaggca gcaagaggct gatattcaaa attctaagtt cagttatgaa 420 caactggaga ctgatcttca ggcctccaga gaactgacca gtaggctgca tgaagaaata 480 aatatgaaag agcaaaagat tataagcctg ctttctggca aggaagaggc aatccaagta 540 gctattgctg aactgcgtca gcaacatgat aaagaaatta aagagctgga aaacctgctg 600 tnccaggagg aagaggaga tattggttta gaagaggaga acaanaangc ttgtggttaa 660 aacccaatca gcttatggga acacttgaaa accatcaaaa nggaaacatt tagncaaaag 720 geneagttgg atteettggt naaateetgn ettetnttee aaatggatee gagaacegen 780 tagtgggggg actattcacc agctgggaan agccgactt 819

<210> 405

<211> 761

<212> DNA

<213> Homo Sapiens

## <400> 405

ctgaaaataa ttttattat ttacagttgt tcaggaaact tcccaggatg ttgtaaccaa 60 natttaatca ccacagtana tttanagcan atcagtcagc ccacttgtct tccctcttct 120 ttaggganag gctaggcagt gaacacatca tgtatgcaat ganaaaataa ccaactggta 180 ggatgggga ggggaggga ggcagggaat aggcncaaat ggaattctat cctggctgtc 240 cttctcaggt ctatctatat ttaattttgt cttctctata ttctccttcc attgccacag agggcanaga caatggggct gaaaaactgt aataactgnc actaacagca aagtanctta 360 gtncttcaag aggtcaggag ttgcagtgtg gtgttanacc agtcanactc ctggctgaaa 420

```
qtcaatgcct aatattggct cccagnggcc cctgagcact gtctcagggt ccacattcca
                                                                                                                            480
qqaatnttca natnttcctg gaatgacaag aattggaacc ctgctgncca tagacacttc
                                                                                                                            540
tecetgeeet ttggtgaaag gaaagaettt gggeeeettt aatacettan tateeeatgt
                                                                                                                            600
gatcaagggc caaaagccaa aggggattct tatccttata gcctaagacc ctgaaattct
                                                                                                                            660
tocottocca attatatoty gaaattygoo aggggaanaa aaatgotyno ottoccatyn
                                                                                                                            720
qqaatctacc aggnttaaaa ccccnttaag ggagttccct t
                                                                                                                            761
          <210> 406
          <211> 758
          <212> DNA
           <213> Homo Sapiens
          <400> 406
gatactgaac ttcagattat taggtttatt gaaaccatcc tcttggcttg gctgaaaqac
                                                                                                                              60
attectcagt atettttaca ggaccacaaa agatcagggt cetgcaaaaat etcaacaaat
                                                                                                                            120
attaggetea acaaaccaaa tgtgattete agattaagea gaagegttea ggeteaggge
                                                                                                                            180
agtagaagaa agcagactog ccagtocotg cagotocaac ctgtoctogt atcacototq
                                                                                                                            240
ttttttgcagg cactttccgt gaagagttgg agagaagacc tgtaaatggg aagactqttc
                                                                                                                            300
cactggaatt gatgttctga tgttagaggt gagagaattc caagttttga ggggagtggt
                                                                                                                            360
ccaaagagta acaactaagt ctatagatgg cccgtaaaac acagaatgag caggacatga
                                                                                                                            420
atcattagaa agtagatggc tgctagaagt ggcactcggg tccgtgaatg acagagtgaa
                                                                                                                            480
egeaggacte gettecatee aacgecacte egggteette gacaactgtt gettqtaaqa
                                                                                                                            540
 tetattaaca gtgeetgete etgagtgeea caggageeaa tgataggagt eegggaaaga
                                                                                                                            600
gteccattea etgngeteta aceggetgga tetgeteete ggecacagga gagageattt
                                                                                                                            660
 ttcagcagcc actetttggc eneggtettt ettecagcag ettectttaa atcatteett
                                                                                                                            720
 tettggetgg nggttgeeat aactgetggt tggacett
                                                                                                                            758
           <210> 407
       <211> 778
                                                                                                                              TOWNS OF STREET
<212> DNA
                                                  19 (24) (24)
     - <213 > Homo Sapiens
                                                    100000
                                                                                                                         The state of the s
       ्राध्यम् अवस्थानम् । १ । १ ।
                                                                                                                             ing in begins back, which
     <400>407
                                                    1.304.3.4
                                                                                                                          a transfer of assets
 cttcaggaac tgttaaaaga aaaacaacaa gaagtaaagc agctacagaa ggactgcatc
                                                                                                                              60 March 17 1 5
 aggtatcaag agaaaattag tgctctggag agaactgtta aagctctaga atttgttcaa
                                                                                                                             120 800
 actgaatctc aaaaagattt ggaaataacc aaagaaaatc tggctcaagc agttgaacac
                                                                                                                             180
 cgcaaaaagg cacaagcaga attagctagc ttcaaagtcc tgctagatga cactcaaagt
                                                                                                                             240
 gaagcagcaa gggtcctagc agacaatctc aagttgaaaa aggaacttca gtcaaataaa
                                                                                                                             300
 gaatcagtta aaagccagat gaaacaaaag gatgaagatc ttgagcgaag actggaacag
                                                                                                                             360
 gcagaagaga agcacctgaa agagaagaag aatatgcaag agaaactgga tgctttgcgc
                                                                                                                             420
 agagaaaaag tccacttgga agagacaatt ggagagattc aggttacttt gaacaagaaa
                                                                                                                             480
 gacaaggaag ttcagcaact tcaggaaaac ttggacagta ctgtgaccca gcttgcagcc
                                                                                                                             540
 tttactaaga gcatgtcttc ccttcaggat gatcgtgaca gggtgataga tgaagctaag
                                                                                                                             600
 660
 gaagataatt gcagtgtcta aaggacactt agacagatgt ccttcntatg gaagaattaa
                                                                                                                             720
 agantaccat ttcaggcttt gaccatgaca gcagatttgg agtccaggnc caaccaga
                                                                                                                             778
            <210> 408
            <211> 752
            <212> DNA
            <213> Homo Sapiens
            <400>, 408
 canattatta ggttnatnga anccatcctn tnggntnggn tgaaanacnt tcctnagtnt
```

nttttacngg accncaaaan atcagggncc tgcaaaatct cancaaatnt taggetcanc

60

120

```
aaaccaaang ngattntnaa attaancaaa ancgttcagg ctcagggcag taaaaaaaag
                                                                         180
  caaactegee agneentgea getecaacet gneetegtat encetnigtt titgeaggen
                                                                         240
  ntttccgnga anagttggan anaaaacctg taaanggnaa aactgttcca ntggaatnga
                                                                         300
  ngttctgatg ttanaggnga nanaattcca agttttgagg ggagnggncc aaagagtacc
                                                                         360
  aactaagtnt ntananggcc cgtaaaacnc anantganca ggacntgaat cnttaaaaag
                                                                         420
  taaatggctg ntaaaagngg cnctcgggtc cgtgaatgac agagtgancn caggactcgn
                                                                         480
  ttccatccaa cgccantccg ggtccttcga caactgtngc ttgtaanatc tattaacagg
                                                                          540
  gcctgntcct gantgccaca ggagccaatg ntaggagtcc gggaagagtc ccatttcact
                                                                         600
  ggggctttaa ccgtctgaat ctggtccttg gccncagaga gagcnttttt nagnaggccc
                                                                          660
  nenttttggg cecegttntt tttteeagea ngetteeett taatteatte netteeeggg
                                                                          720
                                                                          752
  ctgggggttg caaaacntgc tggntgacct tt
        <210> 409
         <211> 736
         <212> DNA
         <213> Homo Sapiens
         <400> 409
   ggcgtgtcaa aactaacgta cctgtcaagc tctttgcccg ctccacagct gtcaccacca
                                                                           60
   gctcagccaa gatcaagtta aagagcagtg agctgcaggc catcaagacg gagctgacac
                                                                          120
   agatcaagtc caatatcgat gccctgctga gccgcttgga gcagatcgct gcggagcaaa
                                                                          180
   aggccaatcc agatggcaag aagaagggtg atggaggtgg cgccagcggc ggcggcggcg
                                                                          240
   gtggtggtgg cageggtgge ggtggcagtg gtggtggegg tggeggtgge aacageegge
                                                                          300
   caccageece ccaagagaac acaacttetg aggeaggeet geeceagggg gaageaegga
                                                                          360
   cccgagacga cggcgatgag gaagggctcc tgacacacag cgaggaagag ctggaacaca
                                                                          420
   gecaggacae agacgeggat gatggggeet tgeagtaage ageetgacag gageaatgge
                                                                          480
   caccagcagg tgaagggcat cgctgcccag gcctcaagcc gggcacccaa ccctggatgc
                                                                          540
   cacccccag cgggtaccag aggaaagctg cagcaggccg cctcctcccc caacgcatnc
                                                                          600
   cagocagtgo catgtoctot goaggtggag ttactggcot actoottoco atgaaccott
                                                                          660
cettgtetge acttgccagg ccagagggta gagcacangg gtttccccat acttacette
                                                                          .720
                                                                          736
                                      Sold Control of the American
: ccttcccagg acactt
                                           gradana www.
         <210> 410
         <211> 766
         <212> DNA
         <213> Homo Sapiens
          <400> 410
   gggatccaat ctctttattg tcagggtccc ctccctgngg ccccccgcca aacctataga
                                                                            60
    aaaaacccaa gcctgggagt gtcctgggga ggggaggtag tatggggaaa cccctgngct
                                                                           120
    ctaccetetg geetgggeag tgcanacagg gagggeteat ggggaaggag taggeeagta
                                                                           180
    actocacctg cagaggacat ggcactggct gggatgcgtt gggggaggag gcgcctgctg
                                                                           240
    ccagetttee tetggtacee getggggggt ggeateeagg gttgggtgee eggettgagg
                                                                           300
    cctggggcag cgatgccctt cacctgctgg nggccattgc tcctgtcagg ctgcttactg
                                                                           360
    caaggcccca tcatccgcgt ctgtgtcctg gctgtgttcc agctcttcct cgctgtgtgt
                                                                           420
    caggagecet tecteatege egtegteteg ggteegtget tececetggg geaggeetge
                                                                           480
    ctcanaagtt gngttctctt ggggggctgg tggcccggct gttgccaccg gcaccggcac
                                                                           540
    caccactgnc accgncaccg ctgcaccacc accgncggcg cccgncgntt ggcgccaact
                                                                           600
    tcatnaccet tettettgca tctggaatgg nettttgett negcanegaa ctgntccaaa
                                                                           660
    cgggttaanc agggcatcna tatttggact tgaactgggn caancttccg ncttgaangg
                                                                           720
    ccttgcaage ttnaatggte tttaacttga actttggett gaacet
                                                                           766
```

<210> 411

<211> 812.

<212> DNA

## <213> Homo Sapiens

** - ----

```
<400> 411
ggcgtgtcaa aactaacgta cctgtcaagc tctttgcccg ctccacagct gtcaccacca
                                                                       60
gctcagccaa gatcaagtta aagagcagtg agctgcaggc catcaagacg gagctgacac
                                                                       120
agatcaagtc caatatcgat gccctgctga gccgcttgga gcagatcgct gcggagcaaa
                                                                       180
aggccaatcc agatggcaag aagaagggtg atggaggtgg cgccagcggc ggcggcggcg
                                                                       240
.gtggtggtgg cagcggtggc ggtggcagtg gtggtggcgg tggcggtggc aacagccggc...
                                                                       300
caccaqcccc ccaagagaac acaacttetg aggcaggcet gccccagggg gaagcacgga
                                                                       360
cccgagacga cggcgatgag gaagggctcc tgacacacag cgaggaagag ctggaacaca
                                                                       420
gccaggacac agacgcggat gatggggcct tgcagtaagc agcctgacag gagcaatggc
                                                                       480
caccagcagg tgaagggcat cgctgcccca ggcctcaagc cgggcaccca accctggatg
                                                                       540
ccaccccca gcgggtacca gaggaaagct ggcagcaggc gcctcctccc ccaacgcatc
                                                                       600
ccagccagtg ccatgtcctc tgcaggtgga gttactggcc tactccttcc ccatgagccc
                                                                       660
tecetgicig cactgeecag gecagagggi agageacagg ggitteecea tactacetee
                                                                       720
cctccccagg acactcccag gcttgggttt tttctatagg tttggcgggg ggccncaggg
                                                                       780
aggggaccct gacaataaag agattggatc cc
                                                                       812
      <210> 412
       <211> 857
       <212> DNA
       <213> Homo Sapiens
       <400> 412
 aaccatetta geceecaaaa tgatgatget etggagaeae gagetaagaa gtetgeatge
                                                                        60
 tetgacatge ttetegaagg tggteetaet acagettetg taagagagge caaagaggat
                                                                       120
 gaagaagatg aggagaagat tcagaatgaa gattatcatc acgagctttc agatggagat
                                                                      .180
 ctggatctgg atcttgttta tgaggatgaa gtaaatcagc tcgatggcag cagttcctct
                                                                      240
 gctagttccagcagcaacaag taatacagaa gaaaatgata ttgatgaaga aactatgtct
                                                                     1630005040199335 1
 ggagaaaatg atgtggaata taacaacatg gaattagaag agggagaact catggaagat
                                                                    ું પ્ર360 ક્ષાંક્રમાં પ્રાથમિક છે.
 geagetgetg caggaceege aggtagtage catggttatg tgggttecag tagtagaata
                                                                      tcaagaagaa@cacatttatg ctccgctgct accagtagtt tactagacat tgatccatta
                                                                     attttaatac atttgttgga ccttaaggac cggagcagta tagaaaattt gtggggctta
                                                                     11540 Fact Schule 1.
 cagectegee cacetgette acttetgeag cecacageat catatteteg aaaagataaa
                                                                      600
 gaccaaagga agcaacaggc aatgtggcga agtgccctct gatttaaaga tgctaaaaag
                                                                      1660
 actcaaaact caaatggccc gaagttcgat gtatgaaaac tgatgtaaag gaatacactt
                                                                       720
 tcagaaataa aaagcacagt gctgcttctg gagacatgcn gacaagnctt tttttgctga
                                                                       780
 nccagcagnt ntggctgatg tggactgaaa cttttggcag aatgcaggat ttggatggac
                                                                       840
 tcctggcnaa agtctta
                                                                       857
       <210> 413
       <211> 790
       <212> DNA
       <213> Homo Sapiens
       <400> 413
 ctcaagtnga ttttattanc aaaaagngca aactattttg ancaaaagta aactatgagt
                                                                        60
 cacagentte ageaagacat canaenegga anagnganea atatteaeta agtaaaatne
                                                                       120
 agcanatgan atgtctntca catgtatatt naattattca tgctttttca atagtctntt
                                                                       180
 agtcaacttt cagngtaatt tccacaaata tatagcagnt caaacncaaa tgcaggancn
                                                                       240
 caanggcaaa gttnggcaac tgtttngggc taattatgag tntgaaagaa anccttatat
                                                                       300
 cacagtttca cgttcatgta anccactgng caacatgaat gaatntttaa angngttgac
                                                                       360
 nctgaaatca angtncaact aangaaanta aagaanaaaa gggggcttta aaatattngt
                                                                       420
```

480

540

ngenetacag tegtatagta agaggeagaa aaaaatgaan gaattttaaa taatettaca

cgtgtntaca gggccaggaa cgtaatgaat ccatgttaac ttaatttcat ttaaaattnc

```
atttgtagaa gtcncncaac agaaagatcc atgcggttga acagtgtgcc tgtncttgac
                                                                     600
aagtgagaga agatccttct ccaaaaggga gattcagtct agggntactt cagttnttcc
                                                                     660
catagnggct acagggcana atcttttca aaagcaattt tctggtccct aaatctacag
                                                                     720
genetantgg gacetgtaat taaaaneece caattttaag gangattttt aaaceccaet
                                                                     780
                                                                     790
taagctttta
      <210> 414
      <212> DNA
      <213> Homo Sapiens
      <400> 414
                                                                      60
qnnnnntnen gecannenan agnntgntea eeteenagat nngggatggn ntggtgaeee
ngqcnttgac tetgnnnngc gacntnttgc tagtetteag gnetectact acaggetttg
                                                                      120
taatganctn nacttgnett gagacageet angggagaee aeggatgnte tattannngn
                                                                      180
gcangetgnn ctatngcaan ntgggnetna nnetgnanaa teannngeng ceatgnnaga
                                                                      240
tnaatagaag ctcatnntgt cataaatggn ccatgactta taaatnaagt ggactggata
                                                                      300
tettatgaca gnagenatnt angettngtg ngnagttaan getteeacet nnggangata
                                                                      360
agaggnenae ettgtntnan etnntgenge tgnaaganee agaganannt geentgggag
                                                                      420
attcatggcc natgatagta tatnatctet tacaccanat atgeettget gnatencaaa
                                                                      480
tetggacata caegntttee ceateteaga ettenttgea geagetgett neenaennta
                                                                      540
cccatgaacg acanntgctt acgntanagc ntgaacnatn tgatgagctt cntcagccca
                                                                      600
gacctcatca tttcgagaag cacatgtccc tgcgtttcaa cctatggatg aggaaaagnc
                                                                      660
ctngngctta aagctcttga aaatccttta cacnngaanc nttctgcata gcttnaatca
                                                                      720
ctctgagntg cccacatngn gtnctggaag gcttccggnt annatggttc cgggacctnc
                                                                      780
aaccetteeg tttgaatnet nacntgaceg ganagggtnt geetgggtte ettgngeene
                                                                      840
quacttaacc ntcacaattn ggntgngant tcntggtaac ggcntaatct nccccaggaa
                                                                      900 -
 ttggccgctg cttcnacggg aattaanggg aatctttccc atccenctta nnaccagtta
                                                                      960
 ggngcccntt tttcaatttt cngactcccg gagcttttaa aaaccggggg ccttaggttn
                                                                     1020:1
tottqqatggcinttgggggtn gcccccttta gggaattaaa ggg
                                                                     1063
       radio Lorenteiro
      <210> 415
                                             The William of the second of the
      <211>.824
       <212> DNA
       <213> Homo Sapiens
       <400> 415
 gtttgattnt aacaaaannt attatgcaca aatnacnnag gntanagact ctnncatctn
                                                                       60
 anatnaaaat ancagttata attacacaca taatataggt accttataca atgattccaa
                                                                      120
 taaatatcac aggaaataca ntgcattttc aagntgnana gacnaatact tnctcattca
                                                                      180
 cagngnttga catanganag cctatttaca tancnatctg tataaagtca tgctctnant
                                                                      240
 ancaggntat ncagngctgn gccancacaa tgntttnaga angtgaagaa ccggncaaac
                                                                      300
 cactnntggn getggggate tgganaagee acetgnanaa getteaetet gageangaet
                                                                      360
 cannaatgnc ttgngccctt taggtggcac tggctgtgga agtggttaag ctgctgctga
                                                                      420
 actcaattcg tggactgnag aattaggaat ggganccagg cggttnggat gaccattgcc
                                                                       480
 cactonanca natnecaaag nnetnagaan gggaacnete caancetget tnatggngat
                                                                       540
 taancatnet tettettttg ettaaceeat ggattanane acancagena gtaengaett
                                                                       600
 ggntttaccc nettengttg gaaataagga ttettgatng actaaannne agetggtnaa
                                                                       660
 aachtaactn tooctoaatt tagonttatt ntatgaanco ggggootant ntontgttoa
                                                                       720
 aaaangngnt tttaagttcc ggtaatccta ccggnaatta nttgggggct ntgaattcan
                                                                       780
 cncccttana anatttnggn ttaccatttn aatccaaagg ccac
                                                                       824
```

<210> 416

<211> 838

<212> DNA

७५.**८५**४,५३३

医正常线性毒剂

**""的在**设态的数

: 3世紀27年

- 1.00

## <213> Homo Sapiens

77 W 221U7#UJ

<400> 416 ctcaaaagtg gaaaatatgt acaatctgta atgagetttt teetgaaaat gtetatagtg 60 tqcacttcqa aaaagaacat aaagctgaga aagtcccagc agtagccaac tacattatga 120 aaatacacaa ttttactagc aaatgcctct actgtaatcg ctatttaccc acagatactc 180 tgctcaacca tatgttaatt catggtctgt cttgtccata ttgccgttca actttcaatg 240 atgtggaaaa gatggccgca cacatgcgga tggttcacat tgatgaagag atgggaccta 300 aaacagattc tactttgagt tttgatttga cattgcagca gggtagtcac actaacatcc 360 atctcctggt aactacatac aatctgaggg atgccccagc tgaatctgtt gcttaccatg 420 cccaaaataa tcctccagtt cctccaaagc cacagccaaa ggttcaggaa aaggcagata 480 tocotgtaaa aagttoacot caagotgoag tgooctataa aaaagatgtt gggaaaacoo 540 tttgtcctct ttgcttttca atcctaaaag gacccatatc tgatgcactt gcacatcact 600 tacqaqaqaq gcaccaagtt attcagacgg tcatccagtt tgagaaaaag ctnacctaca 660 aatgnatcca ttggcttggt gngnatacca gcaacatgga ncggctnaac tatcacttct 720 gnatctagnt cactggangg gccgtttggn aagganccca aatgggccag gataagacaa 780 aaggeneest ttngggttaa teagnettee aagtetngea eetgtgnaae geacttae 838 <210> 417 <211> 880 <212> DNA <213> Homo Sapiens <400> 417 aagcacaata cagcaattta tttagatgct taaaatgaat acaaagggaa aataaagatc 60 acaaaattat acatactaca acagtgtgtc atatattaga tggtataaat gaatccacca 120 tgatggtgtt gaactaaaga taaaactaaa tatccaaaat gcagcactca ttggtttgct 180 gcttcaacac aacacattt tatacagatc taaaaggtgt caaaattagt agctgcaaag 240 tcaattettg catgtgattt tagettaaaa gattteagaa aacagatetg aaataccagt 300 ttttgttttt gacagetgta atgtcaagga tattcagaac aagaaaaatc ctataataca 360年 9 泰邦特度中 agagagteca gatatatate ttacgtgget ggeetetgtt geaagattgt acaaggttat 420 gtgcaaaaac taagtctgtc caaaaagtcc atactagcgc agttttgagc ttttgctagg 480 taaactagat agagcgttta ttacacagca agggcaacac taaaaaaaga aatctatgat 540: gggcacacag taacaggatc atgagcatca cttgaatagg tctaaaagac tgtcaaatat 600 acatttcaac tattcagaat gaatacatga aaaaaaatcg cttttcccaa aggtctacta 660 tacncattan actgggagct tgnatgttgg gccctacact accatgggga attangttta 720 acacttntta aaaacatttg gccaatcatt teneagangg gaaagaaatg ttgaaaagge 780 cqataaaata aaccettggg ttttcctcgg gggattcatg gagtcacccg ccttaatggg 840 ttttcacatt taagttaccc gggcttggca aaaaaaggtt 880 <210> 418 <211> 763 <212> DNA <213> Homo Sapiens <400> 418

(100) 110					
agaagatggc ggaagcgga	a tttaaggacc	atagtacagc	tatggatact	gaaccaaacc	60
cgggaacatc ttctgtgtc	a acaacaacca	gcagtaccac	caccaccacc	atcaccactt	120
cctcctctcg aatgcagca	g ccacagatct	ctgtctacag	tggttcagac	cgacatgctg	180
tacaggtaat tcaacaggc	a ttgcatcggc	ccccagctc	agctgctcag	taccttcagc	240
aaatgtatgc agcccaaca	a cagcacttga	tgctgcatac	tgcagctctt	cagcagcagc	300
atttaagcag ctcccagct	t cagageettg	ctgctgttca	ggcaagtttg	tccagtggaa	360
gaccatctac atctcccac	a ggaagtgtca	cacagcagtc	aagtatgtcc	caaacgtctg	420
tagaaattct tatggactg	g aatcttcctc	aaggcttact	ttgttcctgg	gatgcagtgg	480
tgcatagaag atagggcat	t gactcactca	gacctggctt	gcccagcatg	cattgcaaca	540

41 W 221U74U2

•						
ataatgtgca agttat	taaa gacatgagtg	aattcgtgac	agattgtcag a	aaaagaaaca	600	
agagttttct acaaca	aaaa actggcttat	ggaacatata	cttctgcttg a	agttgaatgt	660	
gttggggctg agtgta	agaa aatgcaagct	gcaaatctgg	cttacatgtg 9	gaaccaaagc	720	
tggaaatgng tgctt	aaan gcaacttgta	aaattggatt	tcc .		763	
		;	•			
<210> 419						
<211> 753	•					
<212> DNA	T 00 T 00					
<213> Homo						
	<del>-</del>					
<400> 419					•	
ggactattta ctttt	aatgt aattatcaat	acagtcggtt	taaatctacc	attttgttgt	60	
togttttcta tttgt	ttcat ttgttctctc	ttaattittt	tcacctcttc	aggattattt	120	
tggattcact acttt	tttta nagngtcgt	t ttaccactac	tattggccta	ttacctgtat	180	
ctctttttttaatg	gcatt_tctctagga	<u>t ttacaatatg</u>	<u>catctttagc</u>	ttatagtatc	240	
ttgaaatagt agngt	aacac ttcacaaat	a gagtaaaaac	cttataatct	tccatttttc	300	
cetteettet tttgt	gctat tgatgacnc	a tatttactco	tacagatatt	ataaacaaat	360	
tgatatacnc acatt	atcat ttttgcttt	a catactcaat	tatcttttaa	ataaaataaa	420	
aattgaggag aaaat	ccgtt atattatct	a cacatttact	gtttccagca	cttttcattt	480	
ctttgngtag attca	aattt ctgncatct	t ccctttgccc	: aaagaacttc	ttttcatctt	540	
tcttatagtt caggt	ctqct ggcaaccaa	t tageteaged	: tttggtttgc	taaaaaagtt	600	
catatattat cttga	ittttc aaatggnat	t taagctctat	ataggaattc	ttaggtgact	660	
ttaattcctt-catca	ttggg aagangtca	t aaagggcttg	caaaggacta	gaaatctgct	720	
tacattttt nattt					753	
¥						
<210> 420	•	•				
<211> 799	•			•		
<212> DNA			• • • •		;	
<213> Home	o Sapiens		11 异氯矿异			
The first of the second washing		, .	Strange Company	Section 1 Contract of	t e entre e	
<400> 420			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	and the second section of		
gaaaaacgct ttga	taccaa gaattaaaa	a tgcttgtct	a caaacatctt	cccttgcggt	60 ( 30 )	
tcgtgtaaat tcat	tagtgt gcttaggaa	aa gattttgga	a tacttggata	agragittat	120	•
acttgatgat atcc	taccct tcttacaad	ca aattccatc	c aaggaacctg	cggtcctcat	180	
gggaatttta ggta	tttaca aatgtacti	t tactcataa	g aagttgggaa	tcaccaaaga	240	
qcagctggcc ggaa	aagtgt tgcctcat	ct tattcccct	g agtattgaaa	acaatcttaa	300	
tcttaatcag ttca	attett teatttee	gt cataaaaga	a atgettaata	gattggagtc	360	
tgaacataag acta	aactgg agcaactt	ca tataatgca	a gaacagcaga	aatctttgga	420	
tataggaaat caaa	tgaatg tttctgag	ga gatgaaagt	t acaaatattg	ggaatcagca	480	
aattgacaaa gttt	ttaaca acattgga	gc agaccttct	g actggcagtg	agtccgaaaa	540	
taaagaggac gggt	tacaga ataaacat	aa aagagcato	a cttacacttg	, aagaaaaaca	600	
aaaattagca aaag	gaacaag agcaggca	ca gaagctgaa	a agccagcago	ctcttaaacc	660	
ccaagtgcac acac	ctgttg ctactgtt	aa acagactaa	ıg gacttgacaç	g acacactgat	720	
ggataatatg tcat	ccttga ccagcent	tc tggtagtac	c cctaaatctt	ctgcttcaag	780	
tettteactt ctgg	jteett				799	
<210> 423	L	•	•			
<211> 77	)					
<212> DN	Ą					
<213> Ho	mo Sapiens			٠.		
	•					
<400> 42	1				60	
gttcaatatg ggg	gacattc tggctcat	ga atctgaat	ta cttggacta	g tgaaagagta	60	
tttagatttt gct	gaatttg aagacac	ett gaaaacat	tt tcaaaagaa	t gcaaaataaa	120	
aggaaaacca ttg	tgtaaaa cagtagg	egg atcttca	ga gadtedaaa	L Captyacaat	180	

```
tcagaaggat cttgtcgctg catttgacaa cggagaccag aaggtgttct tcgatctgtg
                                                                       240
ggaggagcac atttcaagtt ccatccgaga tggggactcc tttgcccaga agctggaatt
                                                                       300
ctatctccac atccattttg ccatctatct tttgaagtac tctgtgggga gaccggacaa
                                                                       360
agaggagetg gatgaaaaga tttcctactt caaaacctac ctggagacca aaggggcage
                                                                       420
cttqaqccaq accacagagt ttcttccttt ctatgccctt ccttttgttc ccaaccctat
                                                                       480
qqtqcacccc tcatttaaag aactcttcca ggattcctgg actccagagt taaagttgaa
                                                                       540
gttggaaaag tttctagctt taatatctaa agccagcaac acgccaaagc ttttaacaat
                                                                       600
atataaggag aatgggacan agtaacaaag aaatcttgca gcagcttcac cagcagctgg-
                                                                       -660
ntqaaqcttg aaccgtaggt caatgacata cctcaaacgg naccataaga tccaggcccg
                                                                       720
actaccacaa totcantgga gtcacagcan aactggtggg attotottga
                                                                       770
      <210> 422
      <211> 733
      <212> DNA
      <213> Homo Sapiens
      <400> 422
caaaangaan getttatttt gaattttaaa aatacataca tettacaetg taatcaaaac
                                                                        60
aaagcttaag aaagtcaatt cccgcttcct ttagccctga cttacactgg gtacccgttt
                                                                        120
ctgtggccgc cgggggtgac ggncctttgc aggggctcat ccccgctcca ctgcacatta
                                                                        180
gccagccct teegeettgt etteecegng ttggtcatga teeceaggta eteegnggte
                                                                        240
anaagettet eteetgagag tteteegage tggggetgga teagttegte tttgteeana
                                                                        300
teggetteca tgatgteatg gneetettea teatetteat etteateate ateagattea ---
                                                                       360
agaacaccat ctggtagctc ttcggaattt agctgcttga tgatgaattc tatctggcgg
                                                                        420
atcatttcag cattgccttc tttgatgaag cagcgtagga tgtcttccat tcccattgct
                                                                        480
cttgcttcct cacgaatgga tggancagaa aggatgctgt acagagctcc attcacatac
                                                                        540
ggctgtatct catggttttc atggccaaga agatccgaaa ggactttgag caccgaggcc
                                                                        600
tgccaccttg gcacacatgg tcttccctgn gctgcggagg gcagaggttc atggagcaaa
                                                                        660
agccaccgag tactccaacg gggnagccag acagggcagn cagggtcctt tcanaacatc
                                                                        720
                                                                       733
aacccagccc gaa
<210> 423
                                       Company of the Cart Cart
      <211> 862
                                       SERVER TO THE REST OF A
       <212> DNA
       <213> Homo Sapiens
       <400> 423
 catctgtcca gggtgcatcg agccgggagg gctcaccagc caggagcagc acgccactcc
                                                                         60
 actececete geceatecgt gtgcacaceg tggtcgacag gcctcagcag cccatgacec
                                                                        120
 ategagaaac tgcacctgtt tcccagcctg aaaacaaacc agaaagtaag ccaggcccag
                                                                        180
 ttggaccaga actocotoot ggacacatoo caattcaagt gatcogcaaa gaggtggatt
                                                                        240
 ctaaacctgt ttcccagaag cccccacctc cctctgagaa ggtagaggtg aaagttcccc
                                                                        300
 ctgctccagt teettgteet ceteccagee etggeeette tgetgteece tettecceca
                                                                        360
 agagtgtggc tacagaagag agggcagccc ccagcactgc ccctgcagaa gctacacctc
                                                                        420
 caaaaccagg agaagccgag gctcccccaa aacatccagg agtgctgaaa gtggaagcca
                                                                        480
 tcctggagaa ggtgcagggg ctggagcagg ctgtagacaa ctttgaaggc aagaagactg
                                                                        540
 acaaaaagta cctgatgatc gaagagtatt tgaccaaaga gctgctggcc ctggattcag
                                                                        600
 tggaccccga gggacgaagc cgatgtgcgt caggccagga gagacggtgt caggaaggtt
                                                                        660
 cagaccatct tggaaaaact tgaacagaaa gccattgatg tccangtcaa gtccaggtct
                                                                        720
 atgaacttca agccaagcaa ccnttgaagc agatcaagcc cctggaggca atcatggaaa
                                                                        780
 agggtgeegt ggeageaaga caagggeaag aaaaatgett ggaaatggen gaagateeee
                                                                        840
 acacnggaaa ccagcaggcc cg
                                                                        862
```

A ~ A / U U / U / A 7 U / /

<210> 424 <211> 859

17~ ブンバンマルリン

<212> DNA

<213> Homo Sapiens

<213> Homo Sapiens	•
400- 424	
<400> 424	60
gagttatatt attactttat titcttttt taaaatgtag cattaaagtc atccaacata	120
cagatattcc tatggctcct ggcacatttt actctctcta aagtcaggta ttttaattat	
gagatgaaga aaatcatctc attaaaatgg caacatttct gataaatgtt tcatatttat	.180
gtgatgggta attgactccc catctacccc tccagtccag	240
aaccacagct aacaggtggt gggggtgccc aagtagacag ggctgcagaa caagcaacgg	300
ggttaaactt ctcaaacaac aagcaacttc tttatttgta cagagtaaga atatagaaga	360
aaagcatcat tttccttttt agccctttta ttagtgtttt gcctccaccc aagttactgc	. 420
ataccaagca gctaataaaa accaactgac ttaaagtctc tgaaatgcat gcaacttaaa	480
attecetaaa geacacateg gtteegagte tgatttttae agggeagagg etaeggtget	540
getgggttae caggggtgte tggcatgetg etggggtttg aagtegetge tgetgngget	600
-tctggctgct-gggtttctgt-gtggggatet-ttctgcattt-ccagcatttt-tcttggcctt-	660
ggetgetgee acggnaceca tetteatgaa tgeetgeaaa tggetggaee tgntteaaag	720
gttgctgggg ctggagttca ttagacctgg accttggccc tgggacatca aagggctttc	780
tggtcaaggt ttttccaaga agggcctgga accttcctgg acancggntt tttctgggcc	840
tggacgcnca attggggtt	859
·	
<210> 425	
<211> 837	
<pre></pre>	
<213> Homo Sapiens	
<400> 425	
cagaatggag gtggagtccc taaacaaaat gcttgaggag ctaagacttg aacggaagaa	60
actaattgag gattatgaag gcaagttgaa taaagctcag teettttatg aacgtgaget	120
tgatactttg aaaaggtcac agctttttac agcagaaagc ctacaggcca gcaaagaaaa	180
ggaagetgat ettagaaaag aattteaggg acaagaagea attttaegaa aaaetatagg	240
aaaattaaag acagagttac agatggtaca ggatgaagct ggaagtcttc ttgacaaatg	300
ccaaaagett cagacggcae ttgccatage agagaacaat gttcaggtte ttcaaaaaca	360
gettgatgat gecaaggagg gagaaatgge eetattaage aagcacaaag aagtggaaag	420
tgagetagea getgeeagag aacgtttaea acageaaget teagatettg teeteaaage	480
tagtcatatt ggaatgette aagcaactca aatgacccag gaagttacaa ttaaagattt	540
agaatcagaa aaatcgagag tcaatgagag attatctcaa cttgaagagg aaagagcttt	600
tttgcgaagc caaaacccaa agtctggatg aagagcagaa gcnacagatt ctaagaactg	660
ggagaagaaa gtaaatgaac caagagactc agcaggaata ttatgaaagg gaacttaaaa	720
anctgcaagt agaatggaag aagaggggct taattaacga nggccattct aagacttttg	780
gaagaattag cttggaacnc cttttggcaa ttgaacttgt cncaggtaat gccattt	837
<210> 426	
<211> 724	
<212> DNA	
<213> Homo Sapiens	
<400> 426	
gattctaaca aaatttatta tgcagtaatt acaaaggtta aagactcttc catctcaaat	,60
aaaaataaca gttataatta cacacataat atagtacctt atagaatgat tccaataaat	120
The second secon	300

180

240

300

360

420

480

atcacaggaa atacagtgca tittcaagtt ggagagacaa atactttctc attcacagtg

tttgacatag gaaagcctat ttacataaca atctgtataa agtcatgctc ttagtaacag

totatacaga gotgtgccaa cacaattott toagaatgtg aagtacoggg caaaccacto

ctggcgctgg ggatctggag aagccactgg agaagcttca ctctgagcag gactcaaaaa

tgtcttgggc cctttaggtg gcactggctg tggaagtggt ttgctgctgt tgaactcaat

atcgtggact ggagaattag gaatgggatc caggcggtta ggatgtccat tgcccactcc

<210> 429

<211> 788

<212> DNA

<213> Homo Sapiens

<400> 429

gagcagcaga gatttttgct gtgagaatta attaccagta acagttcaat atgggggaca

YY₩ *>5\U944U3* I V.I. USZGI. 19V. / 2

```
ttctggctca tgaatctgaa ttacttggac tagtgaaaga gtatttagat tttgctgaat
                                                                      120
ttgaagacac cttgaaaaca ttttcaaaag aatgcaaaat aaaaggaaaa ccactgtgta
                                                                      180
aaacagtagg cggatctttc agagactcca aatcattgac aattcagaag gatcttgtcg
                                                                      240
ctgcatttga caacggagac cagaaggtgt tcttcgatct gtgggaggag cacatttcaa
                                                                       300
gttccatccg agatggggac tcctttgccc agaagctgga attctatctc cacatccatt
                                                                      360
ttqccatcta tcttttgaag tactctgtgg ggagaccgga caaagaggag ctggatgaaa
                                                                       420
agatttccta cttcaaaacc tacctggaga ccaaaggggc agccttgagc cagaccacag
                                                                      480
agtttcttcc tttctatgcc cttccttttg ttcccaaccc tatggtgcac ccctcattta
                                                                       540
aagaactett ccaggattee tggactecag agttaaagtt gaagttggaa aagtttetag
                                                                       600
ctttaatatc taaagccagc aacacgccna agcttttaac aatatataag gagaatggac
                                                                       660
aaagtaccaa gaaatettge ageagettea eeacagetgg ttgaagetga aegtaggtea
                                                                       720
qnqccttcct taaacgggcc aattaagaat ccaggccgac taccacaatc ttantggggg
                                                                       780
                                                                       788
tcccagca
      <210> 430
      <211> 655
      <212> DNA
      <213> Homo Sapiens
      <400> 430
caaaatgaat gctttatttt gaattttaaa aatncatacn tnttacnctg naatcaaaac
                                                                        60
aaagettaan aaagteaatt eeegntteet ttaneeetga ettaenetgg gtneeegttt
                                                                       120
ntggggcene egggggngae gggcetttge aggggeteat eccegnteea etggacatta
                                                                       180
necagecet teegeettgg etteecegng ttggteatga neceeaggtn eteegnggte
                                                                       240
aaaagettnt nteetgaaag tteteegane tggggetgga teanttegte tttgnecaaa
                                                                       300
neggntteca tgatgneatg ggeetnttea teatetteat ttteateate ateanattea
                                                                       360
anaacnccat ntggnanctt ttcggaattt aactgettga tgangaatte tatntggngg
                                                                       420
```

ancattteag cattgeettn tttgaagaac cancgtagga nggtttecat teccattggt

nttgnttcct cacqaatgga tggaacanaa aggatgctnt acananctcc attcacatac

qqntqnatnt:catggntttc atggccaana anaatcccaa aggctttgag cccaggnctg

gcccttggca caaatgtint tcctggcttc cgaaggccaa ggttcattga ccaaa

480

540 中 通過機能 600 中央電影的和

6551 1 / Julian Mar Mar

Jan Brown House

4: -.

<213> Homo Sapiens

# <400> 431

ggaagaagga agaggtaact ataactaccc aatattgcag ccatggagtc catgcttaat 60 aaattgaaga gtactgttac aaaagtaaca gctgatgtca ctagtgctgt aatgggaaat 120 cctqtcacta gagaatttga tgttggtcga cacattgcca gtggtggcaa tgggctagct 180 tggaagattt ttaatggcac aaaaaagtca acaaagcagg aagtggcagt ttttgtcttt 240 gataaaaaac tgattgacaa gtatcaaaaa tttgaaaaagg atcaaatcat tgattctcta 300 aaacgaggag tecaacagtt aacteggett egacaceete gaettettae tgtecageat 360 cctttagaag aatccaggga ttgcttggca ttttgtacag aaccagtttt tgccagttta 420 gccaatgttc ttggtaactg ggaaaatcta ccttccccta tatctccaga cattaaggat 480 tataaacttt atgatgtaga aaccaaatat ggtttgcttc aggtttctga aggattgtca 540 ttcttqcata gcagtgtgaa aatgggtgca tggaaatatc actcctgaaa atataatttt 600 gaataaaagt ggagcctgga aaataatggg ttttgatttt tgngtatcat caaccaatcc 660 ttctgaacaa gagcctaaat ttccttgtaa agaatgggac ccaaatttac cttcattgng 720 tettneaaat eetgaatatt tggettetga ateetaettt etgngaaett gtgaaaceag 780 ccagtggata tgggattcnt ttaggaactg gtatggaatg ccgggatttt aataaaaggg 840 gaaa 844

<211> 807 <212> DNA

<213> Homo Sapiens

<400> 432

atcaaagcta aaatttattt ggtgcatact cctcttgata tcaggtatgt tcgcatatac 60 ctttttcttt catgtgtaaa aacaaccatg tgaggtattt tacaggtcaa aagaaaacaa 120 aaactacttc cttattcagt gtaaaggagg cttataagca ttccaaaata aaaacaaaca 180 aaaaccagac aagtacatag totatttoca tttootttta tacatootot otatatatoa 240 cacatttagc aataggagaa tagagaacta attcaaatgc aagggaatct tttttgtaga 300 ttctgttgac agatgctctt taacctaaac attttctact ctaaacataa cggacttaat 360 tgtcttcagt acgtgaaata attttaaggt gatctagtac tttgaaaatt tcattcactt 420 aagaacactt aagctgaaaa atagcactat ttttcagagg caatttctca acagaaaaaq 480 gcaatggtaa cagttcaatt gatggaaatg gttgaaataa aatacctgaa gtagaaaaaa. 540 ggtgtaggaa caattttgta aaaacatagc accattacct caacgaatga acaaatttta 600 catactggat ttttttcaaa tgacttattt tcatatttag tagttcaagg tctataagct 660 ggtatattaa gctttctttc tggttaagag ntcaacactt acatcatggt attttacnaa 720 attaaaaacc aatttettaa ataaaccgng geteetaaaa tggtaccaag gaaaaattet 780 tcaataccta atttaattcc ataagga 807

<210> 433

<211> 866

<212> DNÄ

<213> Homo Sapiens

<400> 433

cttcagccca gatgcagaat gggggcccct ccacaccccc tgcatcaccc cctgcagatg 60 geteacetee attgetteee eetggggaae eteceetgtt agggaeettt eeeegggaee 1 120 mile . ..acacctcttt.ggcactagtt cagaatggtg atgtgtcggc cccctctgcc atactcagaa acaccagaa caccagaaag cacaaaaccg ggtoctgttt gtoagocacc agtgagtoag agoogotoco 44482404.44 ...... tgttttette tgteeegtee aagedaceaa tgtetetgga geeteaaaat gggaegtatg 20003000000 caggaccago gocagoatto cagocatttt tottcactgg agcatttoca tttaatatgc programments in aagagetggt.aeteaaggtg agaatteaga acceatetet tegagaaaat gattteattg. ১৯৯০420 mg 🚈 🗯 aaattgaact ggaccgacag gagctcacct accaagagtt gctcagagtg tgttgctgtg agctgggtgt taatccagat cangtggaga ngatcagaaa gttacccaat actctgttaa 👑 540% : ggaaggacaa ggatgttgct cgactccaag atttccagga gctggaactg gttctgatga 600 taagtgaaaa taattttctg ttcanaaatg ctgcatccac actgactgaa aggccttgct 660 ataacaggag agetteaaaa actgaettae taatgeacag ggaettttat eactggagta ttatgacagt gngcatcacc ttntgggccc aaggaccaag ccattggtct aaaaggcctc 780 aaaatgcccc ggganggcct ctggtggcca tggcattagt atatactaac catcattctg 840 gccaggtaag gaagcccctg gacccc 866

<210> 434

<211> 764

<212> DNA

<213> Homo Sapiens

<400> 434

caaaataacc tttattttg atacaaaaat aaagatgcta actcctttag ctcagtttcc 60 cacaataacc tttaatag caacagattc agtctcaaaa attgcttttc atttgtagtg 120 gaaaatgaaa gtggagaaca tggaacagca atatttgngc tcttctcata ggatgcagtt 180 acacacacat atgactggaa tcacttcaga gtaaaaaaaa agtgggctgg gtgcagtggc 240 tcacacctgt aatcccagca ctttgggagg ccaaggacag gagcatcact taaggccaga 300 agtttgagac cagcctgggc cacatagtga gaccctgtct ctatgggcgg ggtgggggtg 360 gggggcattg taaaaaagca gttgttcttt tanaaggcat cagagagccc tntagtgacc 420

ママ ひ フブ/ひずがひろ

```
acgaagggga gttaatgcag agatgactcg agacagagaa gcagtcatga gtgtttacaa
                                                                                                                          480
aggaaaaagt gagggaggga aagctctttt ggttaacagc atatttacaa ttagttaact
                                                                                                                          540
gnattcttaa atacttttaa cctgagtaac atttataaat atgttatagg aaacctcaca
                                                                                                                          600
gtcacaagtc acactagaat ccatctgtcc agtatctggg ctttccccac accagaatcc
                                                                                                                          660
atctgtccag tatctgggct ttcccgagtc ttcctcttct cataagttcc caanggcagc
                                                                                                                          720
anaagtgtga agcatgcaca ccaaggaaaa acgcattcca gccc
                                                                                                                          764
           <210> 435
           <211> 834
           <212> DNA
           <213> Homo Sapiens
           <400> 435
agattttgtt aattttccta caaaaaatgg atttgctact aaccaaaacc cctcctgatg
                                                                                                                            60
agataaagaa cagtgttcta cccatggttt acagagcact agaagctcct tccattcaga
                                                                                                                           120
tccaggagct ctgtctaaac atcattccaa cctttgcaaa tcttatagac tacccatcca
                                                                                                                          180
 tgaaaaacgc tttgatacca agaattaaaa atgcttgtct acaaacatct tcccttgcgq
                                                                                                                          240
 ttcqtqtaaa ttcattagtg tgcttaggaa agattttgga atacttggat aagtggtttg
                                                                                                                           300
 tacttgatga tatectacce ttettacaae aaatteeate caaggaacet geggteetea
                                                                                                                           360
 tgggaatttt aggtatttac aaatgtactt ttactcataa gaagttggga atcaccaaag
                                                                                                                           420
 agcagetgge eggaaaagtg ttgeeteate ttatteeeet gagtattgaa aacaatetta
                                                                                                                           480
 atcttaatca gttcaattct ttcatttccg tcataaaaga aatgcttaat agattggagt
                                                                                                                           540
 ctgaacataa gactaaactg gagcaacttc atataatgca agaacagcag aaatctttgg-
                                                                                                                           6.00.
 atataggaaa tcaaatgaat gtttctgagg agatgaaagt tcaaatattg ggaatcagca
                                                                                                                           660
 aattggcaaa gtttttaaca acattggagc agaccttntg actggcagtg agtccgaaaa
                                                                                                                           720
 taaaqangac gggttacaga ataaccttaa aagagcatcc ttaccacttg gaggaaaaac
                                                                                                                           780
 caaaatttgc caaaagaacc aggaccggcn ccgaagctgg aaaagccgca ggct
                                                                                                                           834
                                                                       <210> 436
                                                          ...
                                               and the control of the state of
polyunarátika i v
   <212> DNA
                                                                             The section for their
   orbital abasanting call a train
        <400> 436
                                                                                                                          ° 60
  acagaagtaa agtttattac atttgaaaca atacagcaga aacctcaaaa gtttactcat
  aaatataqtt taattottac aaatottott ttgaaaatgc aattoatata tgotgcaacc
                                                                                                                           120
  tcagaagttt gaatttgaaa tgaaatatga aggtagtagt cagggaagtc acatcagagt
                                                                                                                            180
  geettgteaa atateeaaac aaateageac atacetette ettgatacag gaggaaaaaa
                                                                                                                            240
  gtgattctaa atatatccaa gtgaatgcag aaaaatacat tactatttga ggcagaccat
                                                                                                                            300
  gctaaaatat aatttacaat gattagtttg cacttaagat ggttaataac gcatttaaac
                                                                                                                            360
  caatgaaatg aaggttaagt tgaattttgt agtatttgct cagtctctgt actaaacaat
                                                                                                                            420
  agttcatctg aaaagtttgg aaaaagcaaa taacctgata cttctcttta tgcttatcat
                                                                                                                            480
  tttctcactg tcatcttaaa tgcaaacaaa tcaatacagc atcaagattt tttacatatt
                                                                                                                            540
  aaaatgaaga ctaatgactc atagactgng taccatatag tacttaatag atgagcttgc
                                                                                                                            600
  aatgaccatc acctcaattt tttaaataac accaagatcc acaagccaaa ataaacattt
                                                                                                                            660
   gattaaaaag ttatggtatt caagataact cagtttcctt tttctctttg agattgggna
                                                                                                                            720
                                                                                                                            780
   anggotgggt otttaaaaaa cootggaaaa gggagttggg taaagaggga aaaaaatoot
                                                                                                                            812
   tcaangcttt taaaaaaact tcnactgggt ta
             <210> 437
```

<211> 842

<212> DNA

<213> Homo Sapiens

<400> 437

```
gtggaagagg cgtacctatt tgcaaagtgc agagcaggca tggattgcca attctggaac
                                                                        60
agagcaaagc cccaacttgc cctccactgg tgatgtcaca cccacccatg aagagcctgc
                                                                       120
ctctagggtt gttgaatgtt gggtcacgaa gatctcaacc tggccaaaga agagaaccca
                                                                       180
gaaagatcat cacagtttct gtaaaagaag atgtacacct gaaaaaggca gaaaatgcct
                                                                       240
ggaagccaag ccaaaaacga gacagccaag ccgatgatcc cgaaaacatt aaaacccagg
                                                                       300
agetttttag aaaagttega agtatettaa ataaattgae accaeagatg tteaateaae
                                                                       360
tgatgaagca agtgtcagga cttactgttg acacagagga gcggctgaaa ggagttattg
                                                                       420
acctggtctt tgagaaggct attgatgaac ccagtttctc tgtggcttac gcaaacatgt
                                                                       480
gtcgatgtct agtaacgctg aaagtaccca tggcagacaa gcctggtaac acagtgaatt
                                                                       540
teeggaaget getaetgaae egttgeeaga aggagtttga aaaagataaa geagatgatg
                                                                     . 600
atgtetttga gaagaagcag aaagaacttg aggetgeeag tgeteeagag gagaggacaa
                                                                       660
ggcttcatga tgaactggaa gaagccaagg acaaaagccc ggcggagatc cattggcaac
                                                                       720
atcaagttta ttggagaact cttttaaact caaaatgctt gacttgaagc catcattgca
                                                                       780
tgactgtgtg gtgaagctgc ttaagaaccn ttgatgaaga atccctggaa tggcctgtgt
                                                                       840
                                                                       842
      <210> 438
      <211> 678
```

<212> DNA

<213> Homo Sapiens

#### <400> 438

				•			
-	aaactngcan	tgtntgtntt	tattttgtnc	tttatattt	caaagngaaa	agaaatanna	60
	ctgagncaat	ntctttttgt	ntttttaaan	atttgtncta	tgtatttaca	ngccttaaag	120
	nngctctaaa	gatntcaaga	${\tt gnattaanag}$	nacttttntc	agggnagcac	tnttttttt	180
	ttaaacantt	nttggngttc	tgtggnccac	annatttcct	tntgtntcaa	ngtnatgtat	240
	gtnttgatna	cnatngngat	nttttaaann	ttntgaanca	agctgagagg	cnngcanaaa	300
	gatntgangc	cnnaaaaaaa	aaaatctttn	ttaccttgtn	caccccaaac	tttttcaaat	: 360
	ctggnctaaa	tgctntacct	taaaacanac	atgaggggca	tcttgaaggg	gagggaaant	420
	tatttctctg	cntttctatn	atacangtng	tttacanaaa	ctgngaatta	naaaattaca	JUL 480
	ctggnatttg	cngaccttaa	aataaattaa	aagtnctcaa	ctntttttt	ttttgntaaa	540
•	cnttttttta	agnatgannc	cntggttaaa	aagaaaagnt	ttaaaccgaa	aatattttct	- 14600
			ggntttaggg	cacagaaat	aaggnttgna	ggttactttt	: .660
	ntccnangac	ctttttcc					678

<210> 439

 $\mathcal{A}^{(n)} = (\mathcal{A}_{n}^{(n)}, \dots, \mathcal{A}_{n}^{(n)})$ 

<211> 826

<212> DNA

<213> Homo Sapiens

## <400> 439

gaccctttac	caacaaatga	aaatgatgat	gatatatgca	agaaaccctg	tagtgtagca	60
cctaatgata	ttccactggt	ttctagtact	aacctaatta	atgaaataaa	tggagttagc	120
gaaaaattat	cagccacgga	gagcattgtg	gaaatagtaa	aacaggaagt	attgccattq	180
actcttgaat	tggagattct	cgaaaatccc	ccagaagaaa	tgaaactgga	gtgtatccca	240
gctcccatca	ccccttccac	agttccttcc	tttcctccaa	ctcctccaac	tcctccagct	300
tctcctcctc	acactccagt	cattgttcct	gctgctgcca	ctactgttag	ttctccgaqt	360
gctgccatca	cagtccagag	agtcctagag	gaggacgaga	gcataagaac	ttgccttagt	420
gaagatgcaa	aagagattca	gaacaaaata	gaggtagaag	cagatgggca	aacagaagag	480
attttggatt	ctcaaaactt	aaattcaaga	aggagccctg	tcccagctca	aatagctata	540
actgtaccaa	agacatggaa	gaaaccaaaa	gatcggaccc	gaaccactga	agagatgtta	600
gaggcagaat	tggagcttaa	agctgaagag	gagctttcca	ttggcaaagt	acttgaatct	660
gaccaggata	aaatgagcca	ggggtttcat	cctgaaagag	acccctntgg	cctaaaaaaa	720
gtgaaaagct	gtggaagaaa	atggagaaga	actgagccag	accgtaatgg	ggcctgaaag	780
ggttctgang	gtgaaggaat	agatgcttaa	ttcangcttc	cccaga	3 3	826

```
ェ モステレビノリバエマリティ
 77 ひ ノノノひてかりり
     <210> 440
      <211> 689
      <212> DNA
      <213> Homo Sapiens
      <400> 440
aaatatttqt tctatgtatt tacaagcctt aaagttgctc taaagatttc aagagtatta
                                                                        60
agagtacttt teteagggta geacttttt ttttttaaac aattettgga gttetgtggt
                                                                       120
ccacageatt teettetgtt teaatgttat gtatgttttg attactattg tgatttttta
                                                                       180
aattttctga agcaagctga gaggcaggca gaaagatttg atgccaaaaa aaaaaaaatc
                                                                       240
tttcttacct tgttcacccc aaactttctc aaatctggac taaatgctat accttaaaac
                                                                       300
aaacatqaqq tgcatcttga aggggaggga aatttatttc tctgcttttc tattatacaa
                                                                       360
gttgtttaca gaaactgcaa attaaaaaat tacactggca tttgcagtcc ttaaaataaa
                                                                       420
ttaaaagttc tcaacttttt ttttttgcta aacatttttt taagtatgag tccttgttta
                                                                       480
aaaaqaaaaq attaaaacag aaaatatttt ctataaataa tacatgtatt ttggttttag
                                                                       540
tgctcccgcc ctaaggtttg aagtttactt ttatccagta cctttttcct ccatgatcac
                                                                       600
ctttttttct ctttcccctn ttccactcgg gcacacgtgg ggggtttctg cnanaattgg
                                                                       660
ccttgctgca ctgngaatgg gcnaaaacc
                                                                       689
      <210> 441
      <211> 883
      <212> DNA
      <213> Homo Sapiens
      <400> 441
etttttatee tggaeeagga eetggggaet teeccaatge ttatggaaeg eetttttaee
                                                                         60
caagtcagcc ggtgtatcag tcagcaccta tcatagtgcc tacgcagcaa cagccgcctc
                                                                        120
cagccaagag agagaaaaaa actataagaa ttcgggatcc aaaccaggga ggtaaagaca
                                                                        180
taacagagga gattatgtct ggaggtggca gcagaaatcc tactccaccc ataggaagac
                                                                        240
ccacqtccac acetactect cetcagcage. tgcccageca ggtccccgag cacagccctg
                                                                        300
tggtttatgg gactgtggag agcgctcatc ttgctgccag cacccctgtc actgcagcta
                                                                        360
gegaccagaa geaageteaa atagetataa; etgtaccaaa gacatggaag aaaccaaaag
                                                                        420
atoggaccog aaccactgaa gagatgttag:aggcagaatt ggagcttaaa gctgaagagg
                                                                        480
agetttecat tgacaaagta ettgaatetg aacaagataa aatgageeag gggttteate
                                                                        540
ctgaaagaga cccctctgac ctaaaaaaag tgaaagctgt ggaagaaaat ggagaagaag
                                                                        600
ctgagccagt acgtaatggt gcttgagagt gtttcttgag ggtgaaggaa tagatgctaa
                                                                        660
ttcaggcttc acagatagtt ctggtgatgg gggtacattt ccatttaaac cagaatnctg
                                                                        720
gaagcctact ggtacttgaa ggtaagaaca gtatgaccag ggagtttctg gtggactttc
                                                                        780
cagttcatgc ctggctgnat tccaaaancc naagggcctg gcttctatta anggatgngg
                                                                        840.
 ttnttgacag gatcaaccaa ncccaaatgg ccaatgggga act
                                                                        883
       <210> 442
       <211> 777
       <212> DNA
       <213> Homo Sapiens
```

## <400> 442

qctaaacatt tttttaagta tgagtccttg tttaaaaaaga aaagattaaa acagaaaata 60 ttttctataa ataatacatg tattttggtt ttagtgctcc cgccctaagg tttgaagttt 120 actititated agracettit tectocatga teacettiti tietettiee ecteteceae 180 tegtgeacae gtgggggttt etgegagaat tggeettget geactgtgat tggegaagae 240 gtgaaacttt ttaaaaaaat acttaaattg tttcttttgt ttcattttgt gtatttgaag 300 ttttagttat ceteagaete etettetget teeegeagee aegtgaagaa tgeegtgaea 360 gatttcagag ccacgecett cccattctgc tctgcagggt ccttgctgct ctcccatttg 420 tagaaggeat eeteggagat eaceteeteg teatatagae aateaaaaaa eateegeage 480 ₹₹₩ ファ/ひずんひご

え しょ/ ひじとり/スマリノ

60

```
aaattggcag gttgatcaag ttttactatc gatgcttgta gtgcataaag tgcttgcagt
                                                                                                                                                                                      540
tecttetetg natetgagte taggtacttg agtaagateg geactetetg ettgaaacag
                                                                                                                                                                                      600
cagtgtccac ttcttgaang tagaagaagt cggctattaa tagctggttt acaaacagca
                                                                                                                                                                                      660
gtcatttaaa gctctaagga atggtaggtg aactcntctg ggatttcggc taagaataag
                                                                                                                                                                                      720
ccctttance aggccaaaga acctggtcan tcaattcgct tttggccctc caataaa
                                                                                                                                                                                      777
               <210> 443
               <211> 875
               <212> DNA
               <213> Homo Sapiens
               <400> 443
taacacagtg aatttccgga agctgctact gaaccgttgc cagaaggagt ttgaaaaaga
                                                                                                                                                                                        60
taaagcagat gatgatgtct ttgagaagaa gcagaaagaa cttgaggctg ccagtgctcc
                                                                                                                                                                                      120
agaggagagg acaaggcttc atgatgaact ggaagaagcc aaggacaaag cccggcggag
                                                                                                                                                                                      180
atccattggc aacatcaagt ttattggaga actctttaaa ctcaaaatgc tgactgaagc
                                                                                                                                                                                      240
catcatgcat gactgtgtgg tgaagctgct aaagaaccat gatgaagaat ccctggagtg
                                                                                                                                                                                      300
cctgtgtcgc ctgctcacca ccattggcaa agacttggac tttgaaaaag caaagccacg
                                                                                                                                                                                      360
tatggaccag tactttaatc agatggagaa aattgtgaaa gaaagaaaaa cctcatctag
                                                                                                                                                                                      420
gattcggttc atgcttcaag atgttataga cctaaggctg tgcaattggg tatctcgaag
                                                                                                                                                                                      480
agcagatcaa gggcctaaaa ctatcgaaca gattcacaaa gaggctaaaa tagaagaaca
                                                                                                                                                                                      540
agaagagcaa aggaaggtcc agcaactcat gaccaaagag aagagaagac caggtgtcca
                                                                                                                                                                                      600
gagagtggac gaaggtgggt ggaacactgt acaaggggcc caagaacagt cgggtactgg
                                                                                                                                                                                      660
accecteaaa anteetaaaa ateaetaage etacaattga tgaaaaaant cactggacet
                                                                                                                                                                                      720
aaagccagct aggcagctgg ggaaaaggca gcagtggtgg accaangcaa gtgaaactga
                                                                                                                                                                                      780
gcentacgge aagtgettne agttaaacag atetntgnee tgaacettea gaacettang
                                                                                                                                                                                      840
gtcccgccat cacgcctgta aagttggatt cccga
                                                                                                                                                                                      875
                      The second secon
       で <2±0 > (444)報 まから、 つき。
                                                                                                                                                                                       CVAVE BARGO V
     . 44 a,<211>≒756π/45, kg/, − ±
                                                                                                                                                                                   or 6.79Lat making
       <212> DNA Transaction
                                                                                                                                                                                          327 CONTRACTOR
             <213> Homo Sapiens
                                                                                                                                                                                         and with a supplementation
         and degraphed to the control
                                                                                  and the state of t
                                                                                                                                                                                     本、企業等等等等等等。
               <400> 444
cttttaaact tgcaatgntt gnctttattt tggtctttat attttcaaag ngaaaagaaa
                                                                                                                                                                                                     60
tagtactgag tcaatttctt tttggttttt taaatatttg gtctatgnat ttacnagcct
                                                                                                                                                                                       120
taaagttgct ctaaagattt caagagtatt aagagtactt ttctcagggt agcacttttt
                                                                                                                                                                                       180
tttttttaaa caattettgg agttetgngg necacageat tteettetgn tteaatgnta
                                                                                                                                                                                       240
 tgtatgtttt gattactatt gggatttttt aaattttctg aagcaagctg anaggcaggc
                                                                                                                                                                                       300
ngaaagattt gatgccnaaa aaaaaaaaaa aatctttntt accttggtca ccccaaactt.
                                                                                                                                                                                       360
tntcaaatct ggactaaatg ctatacctta aaacaaacnt gaggggcatn ttgaagggga
                                                                                                                                                                                       420
gggaaattta tttctctgnt tttctattat acnagttgnt taccgaaact gnaaattaaa
                                                                                                                                                                                       480
aaattaccct ggcntttgca ggccttaaaa taaattaaaa gntctcaact tttttttt
                                                                                                                                                                                       540
gccaaacatt tttttaagta tgagnccttg nttaaaaaga aaagattnaa nccgaaaata
                                                                                                                                                                                       60.0
 ttttctataa ataatacntg nattttggtt ttaaggctcc cgccctaang nttgaaggtt
                                                                                                                                                                                       660
 actitiated nagnneedtt tittedeteda tgaanacede tittittene cittedectt
                                                                                                                                                                                       720 .
 ttcccacttn gggcccccc tnggggggtt tttgcg
                                                                                                                                                                                       756
                <210> 445
                <211> 783
                <212> DNA
                <213> Homo Sapiens
                <400> 445
```

cagaaaatgg tgcttaccaa ctacatgttc cctcaacagc caaggactga ggatgttatg

☆ ● ま/ ● ロノロ/ よせり/ノ

4.377.74.68

ママ い ファ/ひやむひろ

tttatatcag ataatgaaag ttttaaccct tcattgtggg aggaacagag gaaacagcgg 120 qctcaagttg catttgaatg tgatgaagac aaagatgaaa gggaggcacc tcccagggag 180 ggaaatttaa aaagatatcc aacaccatac ccagatgagc ttaagaatat ggtcaaaact 240 gttcaaacca ttgtacatag attaaaagat gaagagacca atgaagactc aggaagagat 300 360 ttqaaaccac atgaagatca acaagatata aataaagatg tgggtgtgaa gacctcagaa 420 agtactacta cagtaaaaaag caaagttgat gaaagagaaa aatatatgat aggaaactct qtacaqaaga tcagtgaacc tgaagctgag attagtcctg ggagtttacc agtgactgca 480 aatatqaaag cctctgagaa cttgaagcat attgttaacc atgatgatgt ttttgaggaa 540 tetgaagaae tttettetga tgaagagatg aaaatggegg agatgegace accattaatt 600 qaaacctcta ttaaccaqcc aaaagtcqta qcacttagta ataacaaaaa agatgataca 660 aaggaaacag attetttate agatgaagtt acacacaata gcaatcagaa taccagcaat 720 tqqtcttctc catctcggat gtctgattca gttctcttaa tactgatagt agtcaagaca 780 783

<210> 446

<211> 866

<212> DNA

<213> Homo Sapiens

#### <400> 446

agattacaac acacatacaa taagtgaatt ttatcaaaat acagcacatt tcttctacta 60 tatccataaa aatcaattcc tatgtaaata gtactgaaaa tcaactaaaa tgagttaaaa 120 tttacaaaga gttgttaaag ggtttcaatc aaaattatta aaactataca gtacaataac 180 caattgataa catcttgaaa gaagtgcaat atttgagttc acatattttt aaaagtgctg 240 cctacttact ctgactagca agaatggaaa gtgagtccaa ctcacttttg caaaaataat 300 .qttqqttqqt qttttaagct agtcttataa aagtcttaat taaaatcaag gttgataaac 360 aaagcataac agattaaaaa ttcccaaatt gcatttctta gtaaataaaa atgaagtgca . 420 ataaccaaat attgetetaa tgaaaggtte cagactagee teaactaaac agttattggt 480 20,3484 500 ottotatggc acttttttct ggtccaaata accatgcatt aatcottacc attacatgtt 680 540__ Thanks the actcamattt tatttgatta catagaacaa amacamataa aattaatggt ctggatamac ...600 ... Thomas of aaaattaata aacctotato atcaaatatt tgttacagta actaggaaca aagaaaggca ∴ 660 多数性質ないには、gtttggtggg taaaacacta ttacactgat coocatagga aaccoottta aagactotgg (20年720元) www.maidi.com/comangetgetgag ttcacattta atggtacctg tagaaacagn cctttatttg/gacaccttta/ 358.780₀ cccactggca ngccctaang gacccatccc tttgctctat aacttttcac aagcaattct 840 866 ctaatcctgg gccagtttnc aaaagc

<210> 447

<211> 789

<212> DNA

<213> Homo Sapiens

## <400> 447

qtcacqttqq aatqcaaatt gagcacatca ttgaaaacat tgttgctgtc accaaaggac 60 tttcagaaaa attgccagag aagtgggaga gcgtgaaact cctgtttgtg aaaactgaga 120 aatcggctgc acttcccatc ttttcctcgt ttgtcagcaa ttgggatgaa gccaccaaaa 180 gatctttgct taataagaag aaaaaagagg caaggagaaa acgaagagaa agaaattttg 240 aaaaacaaaa ggagaggaag aagaagaggc agcaggctag gaagactgca tcagttctta 300 qtaaagatga tgtggcacct gaaagtggtg atactacagt gaagaaacct gaatcaaaga 360 aqqaacaqac cccaqaqcat gggaagaaaa aacgtggcag aggaaaagcc caagttaaag 420 caacaaatga atccgaagac gaaatcccac agctggtacc aataggaaag aagactccag 480 ctaatgaaaa agtagagatt caaaaacatg ccacaggaaa gaagtctcca gcaaagagtc 540 ctaatcccaq cacacctcgt gggaagaaaa gaaaggcttt gccagcatct gagaccccaa 600 aagetgeaga gtetgagace eeagggaaaa geccagagaa gaagecaaaa atcaaagaag 660 aqcaqtqaaq qaaaaaagtc cttcgctggg gaaaaaaagat gccgaagaca gacttcaaaa 720 aagccagang ccaggttttc ccactcctag taaatctgtg agaaagcttt ccacacccc 7.80

aaaaaatgg 789 <210> 448 <211> 820 <212> DNA <213> Homo Sapiens <400> 448 caggattact tatggaggtt ttattatttn tatttatttt tgagactgag tcttgctctq 60 tcatcaggct ggagtgcagt ggctcactgc aacctccgcc tcccaggttc aagcaattct 120 cctgcctcag cctccctagt agctgggatt acaggtgtcc accaccatgc ccaattaatt 180 tttgtatttt tggtacagac agggtttcac catgttggcc aggatggtct cgatctcgtt 240 gaccttgtga teegeetgee teggeeteee aaagtgetgg gattacagge gtgagecace 300 geceetggae taettatgga ggttttaaaa aatettttaa gteeaggeet gaegtttaga 360 gaaggttaca aaggeggeea ggatetgagt atttecaaaa agetetggag geageattga 420 ggtttccttc cagttgaatc actgacttta ggtcgactgg ggtactttgg gttttttggg 480 ccattttttg ggggtgtggg aagcttttct cacagattta ctaggagtgg tgaaaaactt 540 ggcctctggc ttttttggag tctgtctcgc atctttttc cccagcgaag gactttttc 600 cttcactgcc tcttctttga tttttggctt cttctcttgg gcttttccct ggggtctcag 660 actetgeage tttttggggg tetteaanat getggeaaaa geettttett ttetteecae 720 gagggggngc ctggggatta ggactctttt gcctgggana cttcttttct tgngggnang 780 tttttgaaac nntacttttt ccaatttagc ctggaggcct 820 <210> 449 <211> 936 <212> DNA <213> Homo Sapiens 行の 議院計算機 2007 (自身) <400> 449 (5)。 AND THE STATE OF A 10 SAMIN . aaaaaaaatat taatagtttg caggaagagc ttttacagtt gaaagctata caccaagaag . 1 120: And Marker and Aggregating grant grant of the state of th 33. 140/40-1413 Mataagttgaa egagetaaaa gagaaettag taaaacaatg tgaggcaagt gaaaagaaca 12. 140/240: tccagaagaa atatgaatgt gagttagaaa atttaaggaa agccacctca aatgcaaacc :300 aagacaatca gatatgttot attotottgo aagaaaatao atttgtagaa caagtagtaa 😁 ::360 atgaaaaagt caaacactta gaagatacct taaaagaact tgaatctcaa cacagtatct 420 taaaagatga ggtaacttat atgaataatc ttaagttaaa acttgaaatg gatgctcaac 480 atataaagga tgagtttttt catgaacggg aagacttaga gtttaaaatt aatgaattat 540 tactagctaa agaagaacag ggctgtgtaa ttgaaaaatt aaaatctgag ctagcaggtt 600 taaataaaca gttttgctat actgtagaac agcataacag agaagtacag agtcttaagg 660 aacaccatca aaaagaaata tcagaactaa atgagacatt tttgtcagat tcagaaaaag 720 gaaaaattaa cattaatggt tgaaattcaa ggtcttaang gacagtgtga aaacctaccg 780 ccaggaaaag caagaagcca ttttaaantt ntgagagntt acccagagga ttttggaaat 840 ttcccaancn gaactggggg gaatctgctg ggaaaaatag gtcaggagtt cgaatcatgg 900 aaccaccagc aggeetttga ngteatgace tgagea 936 <210> 450 <211> 806 <212> DNA <213> Homo Sapiens <400> 450 aactcaaaac agtgttaagt tcctatgctg ttagtactgt atcttgtcca cacctcaaac 60 aacagtgaga tototgagca catggtotgt acotcaacca ottttotato accagggtot 120

17 54 000

10 75

180

 $\ldots \tilde{\tau}$ 

agaatagttg ggcatttaaa taaaatttgc taaatgaatg aaaaatccaa aataaatcat

```
TTU 22/UTANU
```

gaaqccattt ataaatcaca ccaatcttgc ttgggttaaa caatagaaag taacactttt 240 gaaagagaag gcaaacaggt gttagagggg caagaatgtg agctcgagga aaagacagct 300 acquactqtq tttttaacaa ctcattattt ggctactata tttcccaatc tattctaaca 360 ctaacaagaa totgtotaat taattgtgac aacatotgca aaaccatagt tacotatttt 420 ttcttccaac tcttttactg aagacagagg atcattttt acagaaggtg attttgctaa 480 ggaatcettt aatagtatca actetgetet cetatetegt aattetttt gntetagtag 540 tggctttagg ttttcatgtt cctttataaa acatttttct ttttcattat ggatttcact 600 tttgctacat gtttgagata cttctttcaa cttgaattaa aagaatctga ttttcaagcc 660 ttggtttttc attagcattc ttcatttcta gaagatccag actgcanggn ctcttttct 720 qqactqqaat tottotaact ottttoottt aagaagaace tttttottgg ntoataggoo 780 806 tetteaatta aggaettaag gtettt

<210> 451 <211> 909

<212> DNA

<213> Homo Sapiens

<400> 451

ctgagctctt ccagggcaag aaatatgacg ggccagaagt ggatgtgtgg agtctggggg 60 tcattttata cacactagtc agtggctcac ttccctttga tgggcaaaac ctaaaggaac 120 tgagagaga agtattaaga gggaaataca gaattccctt ctacatgtct acagactgtg 180 aaaaccttct caaacqtttc ctggtgctaa atccaattaa acgcggcact ctagagcaaa 240 tcatgaagga caggtggatc aatgcagggc atgaagaaga tgaactcaaa ccatttgttg 300 aaccagagct agacatetea gaccaaaaaa gaatagatat tatggtggga atgggatatt 360 cacaaqaaqa aattcaagaa totottagta agatgaaata cgatgaaatc acagctacat 420 atttgttatt ggggagaaaa tetteagage tggatgetag tgatteeagt tetageagea 480 atctttcact tgctaaggtt aggcccgagc agtgatctca acaacagtac tggccagtct 540 cctcaccaca aagtgcagag aagtgtttct tcaagccaaa agcaaagacg ctacagtgac 600 catgetggac cagetattee ttetgttgtg gegtateeeg aaaaggagte agaceageac 660 tgcagatagg tgaccctcaa agaagatggg aaatttcctt ccnggaaatc aaagtggcag 720 tgetggttgg aaggaaangg gaattgette eagceaggte ecatgetttg ggnaatgeea. 780 ggtaatneet aataaggegg atatteetgg aacgeeagga aaageteeac tggneectag 840 tagtanenea geatetggtg ggaatgaene gaeegaaattenettaaggtt tgeagtggag. 900 909 agaacttcc

<210> 452

<211> 672

<212> DNA

<213> Homo Sapiens

<400> 452

actgaaaaaa agtgaanttt naattatntt gtnaatnnac tnaaaaaaacc ncacncaagc 60 aatgttcaca antntaaatt naaacctttt gcactaaaaa ancacaaaan ancaaacaca 120 aaaccacagg cntgaactgn aaacctgtct taactatgaa ctggncttaa ggttaattct 180 tanningceat teantattic intectiggin aactgtaatg tintageace ggatgatete 240 cognanaggt notagaanng acngnotgec agngnangga gatnotteen tatacaccac 300 ttnanacnca taccgtcnan tttcanaccn acccagacgg nangcacatg gngatggggc 360 cncacneena etntnanggn aaeggaagta gggcaggngg egcatnggtt gcacatettt 420 aatgtattgc attcgnaaaa aaaaggccag ntttcnatcc caggcgtgct ctngacctna 480 gactttaatn ncatgattta naanatncag nacgntattg cctaaatntt attctataca 540 tttccatcag tggttnagga aaacacttta aatgcaactn anttccacat cananncact 6,00 qnggttacag ntttagctca ttgggcaatt tttngaagca atttttnng aaangctntt 660 ggaatgneec cc 672

<210> 453 .

```
11 U 22/U44U3
```

<211> 834 <212> DNA

<213> Homo Sapiens

<400> 453

aagaagccaa gaagtetgaa gaaccaagaa tteggaagaa geegggaeee aageeeggat 60 ggaagaagaa gcttcgttgt gagagggagg agcttcccac catctacaag tgtccttacc 120 agggetgeac ggeegtgtac egaggegetg aeggeatgaa gaageacate aaggageace 180 acgaggaggt ccgggagcgg ccctgcccc accctggctg caacaaggtt ttcatgatcg 240 accyctacct gcagcyccac gtgaagetca tecacacaga gytycggaac tatatetyty 300 acgaatgtgg acaaaccttc aagcagcgga agcaccttct cgtccaccaa atgcgacatt 360 egggagecaa geetttgeag tgtgaggtet gtgggtteca gtgeaggeag egggeatece 420 tcaagtacca catgaccaaa cacaaggctg agactgagct ggactttgcc tgtgaccagt 480 gtggccggcg gtttgagaag gcccacaacc tcaatgtaca catgtccatg gtgcacccgc 540 tgacacagac ccaggacaag gccctgccct ggaggcggaa ccaccacctg ggccaccgag 600 cccctctgtg accacagacg gccaggcggt gaagcccgaa cccacctgag gacggcagtg 660 aggatgagca cetetagcag cetggaette geagtggetg tgteaagcet caccettegt 720 gtgcacccgc atgggagggt cggagggttg cttgccgncc ttggtgctgg angcgggctt 780 ggtgtccggc tcaagtagcc ttctttgntc ttgggaccag tgggttattt tccc 834

<210> 454

<211> 703

<213> Homo Sapiens

<400> 454

cccgtgtaaa taatttatta caagcataac atggagctct tgttgcacta aaaagtgqat 60 tacaaatete etegaetget ttagtgggga aaggaateaa ttatttatga aetgteegge 120 cccaagtcac tcagcgtttg cgggaaaata aaccactggt cccagagcag aggaaggcta 180 ottgageegg acaccaagee egecteeage accaagggeg@ggcageacee teegaccete eg. 240 ceatgegggt geacacgaag ggtgaggetg acacagecactgeggagtec aggetgetan - 122.300 aggitgeteat ceteactgee giecteaggi gggitegggestieacegeet ggeegtetgt 1650360 ggtcacagag gggctcggtg gcccaggtgg tggttccgcc%tccaggggca gggccttgtc ::...:420 ctgggtctgt gtcagcgggt gcaccatgga catgtgtaca ttgaggttgt gggccttctc 480 aaaccgccgg ccacactggt cacaggcaaa gtccagctca gtctcagcct tgngtttggt 540 catgtggtac ttgagggatg cccgctgcct gcactggaac ccacagacct cacactgcaa 600 aggettgget necgaatgte geatttgggg gacgaaaaag gtgetteege tgettgaaag 660 gnttggccca attnggtaca agatatagtt ccccaccttt ggg 703

<210> 455

<211> 825

<212> DNA

<213> Homo Sapiens

<400> 455

atggcaatca ggaaaaggtg ccagaacccg aggctttgga ccttccagat gacttgaacc 60 ttgacagtga agacaagaat ggtggtgagg acaccgacaa tgaagaagga gaagaagaga 120 atcctttgga gataaaagaa aaaccagaag aagcaggtca tgaagctgag gaaagaggag 180 agaccgagac cgaccagaac gaaagtcaga gtccacagga gcctgaggaa ggccccagtg 240 aagatgacaa ggcagaaggg gaagaggaaa tggacacagg agctgatgac caagatggag 300 atgctgctca gcatcctgaa gaacactctg aggagcagca gcagtctgtg gaggaaaaag 360 acaaggaage egatgaagaa ggtggagaga atggeeetge tgaccaaggt ttecageece 420 aggaggaaga agaacgggag gactctgata cagaggagca ggtgccagag gctttggaga 480 ggaaggagca tgcctcctgt gggcagactg gtgtggagaa catgcagaac acacaggcca 540 tggagctggc tggggccgca cctgagaagg agcaggggaa agaggaacac ggaagtggag 600

1 C 1/ U070/140/7

240

ctgcagat	tgc aaaccaggca	gaaggccatg	aatcgaattt	cattgcccag	ttggccttcc	660
agaacaca	acc aggaaaaaca	cacagagttt	taagaggaaa	cctgggcagg	cttgacaatt	720
gaacgtti	nca tgggtgatca	caattgaacg	tgtgcacaag	aagctganga	cttgtggaat	780
	ggc attgccaacc					825 ·
-						
<:	210> 456		•			
<:	211> 740					
	212> DNA			· • • • • • • · · · · · · · · · · · ·		
<:	213> Homo Sapi	ens				
_	400- 456					
	400> 456 .caa cagtggtata	tattttaata	attttdagaa	tataagetge	atagetttt	60
	aaa atgatataac					120
	ttt gatgaccacc					180
	gat agatgattac					240
	aga acagagcaca					300
	aaa gatcagtttc					360
	ttt ctttcccaga					420
	tcc ccttgactgt					480
	gga ccatggcact					540
	gaa gcagcaagtg					600
	atc gtttttatng					660
	cac accacattct					720
	ccc ccttatactt					740
	•					
	<210> 457			•		
	<211> 726	٠				
	<212> DNA					magnetic control of the second
	<213> Homo Sapi			•		17 17 17 17 17 17 17 17 17 17 17 17 17 1
	eaparatamagas, canas.				·	The second secon
	<400>457		* 11			
	tagt=caactttatt					60 4450 7 7 8 620 7
	gtta cagtetege					120年代高泽宁县等市场企
	teet gtggggtete					180 <u>gorjaja</u>
	gctg gagctggca					240 (2) (4) (4) (4) (4)
	caca gggcccagg					300
	atct tcagggccc					360
	atec tectectge					420
	gtcc ggtgacagg					480
	gggc gacggggtg					540
	gccc cggcctttc					600 .
	tgac ttcatcctg					660
	tegg caaggggac	a nggcacgct	c egggtgeeg	g tggetteegg	actitiggacg	720 726
ccgcaa						726
	<210> 458					
	<211> 870			•		
	<211> 870 <212> DNA				•	
	<213> Homo Sap	oiens .				
	THE TOMO DUE					
	<400> 458			•		
cgcgad		g taccacctg	t cgcggcgcg	a gacctctgg	t gaaagaaaag	60
	<400> 458 ectet eegeegggt gteee ggttaagag					60 120
atgtto	ectet eegeegggt	t agtttccac	c acttgtact	t tggcatgtc	g acatttgcac	120

actttacaag aacgacaaat gcttggtctt caaggacttc tacctcccaa aatagagaca

WU 77/144203 I C1/U070/144/17

```
caagatatte aageettaeg attteataga aaettgaaga aaatgaetag eeetttggaa
                                                                                   300
            aaatatatot acataatggg aatacaagaa agaaatgaga aattgtttta tagaatactg
                                                                                   360
            caagatgaca ttgagagttt aatgccaatt gtatatacac cgacggttgg tcttgcctgc
                                                                                   420
            teccagtatg gacacatett tagaagaeet aagggattat ttatttegat etcagacaga
                                                                                   480
           ggtcatgtta gatcaattgt ggataactgg ccagaaaatc atgttaaggc tgttgtagtg
                                                                                   540
            actgatggag agagaattct gggtcttgga gatctgggtg tctatggaat gggaattcca
                                                                                   600
            gtaggaaaac tttgttgnat cagcttgtgc aggaatacgg cctgatagat gcctgccagt .... ...
                                                                                   660
            gtgtattgat gtgggaactg ataatatcgc actcttaaaa ganccatttt acatgggctt
                                                                                   720
            gaccagaaac gagatcgcac ccacagttga tganctgatg gatgagttta tgaaaqcttt
                                                                                   780
            actgacagat atggccggaa cacctttatt cagttcgaag acnttggaaa tcataangcc
                                                                                   840
            ttcaggtctt tgagaaagtc cggggaaaaa
                                                                                   870
                  <210> 459
                  <211> 761
                  <212> DNA
                  <213> Homo Sapiens
                  <400> 459
            aaatgtaaga tatttattaa ataaaaaggt tacactatga tttttataca ctgttgaaaa
                                                                                    60
            caatgacttt tatttactta aagccagcag tagttcccat tactctcata atgttatagt
                                                                                   120
            taaggettga tttagtteca gaaaataaat agggtaaatt tttaatattt ccctagetet
                                                                                   180
            gtctgctata gggaatttca gagtatgaag gtaagatgaa gcagatatat aagaacattt
                                                                                   24.0-
            ttagataatg acaatttttc cttaaaattt ggtgaaaatt tagtttcttc tcaaaattct
                                                                                   300
            gtacttctat ccataaaagt aaatttctat tttagtagct ctgtaagaac taggccagag
                                                                                   360
            aagagtatta cccataatag taaatagcaa atactttggc aagtctgaat tagagtacaa
                                                                                   420
            gtgaagacat tcacaaacac actttttaca tctcctggat gtggtacggg ctgtatgtta
                                                                                   480
            gaattaaagc atcacaacta tctgattgta gggtgctggt gggcaatgca atcaatcaac
                                                                                   540
            acgtctaccc caacagatgt ggagacccat ggaaaaaata catcaaccaa agtggtcagg
                                                                                  : 600
१४५८ । १६५८ १५ gagaacaaaa coodagaaaa caccottaaa actgaagaca ttatototto ttggotgaaa । अङ्ग 660 ।
aaaggggttc cetggageac angaaaggtt ttatcaaggg aggettetat tengtaatea
                                                                                 720
caggaagget tgatgeanat teetggeeat teataceeea t
after the market of the product of the contract of
                       the subsequences
                                                                  5.学业基础的10.12.50 P.
章中等中国的25年,1956年(210) 460年年4月11
                                                               Dr. Bank of Charles
                  <211> 876
                  <212> DNA
                  <213> Homo Sapiens
                  <400> 460
            ctgagctcct gaagcgccct aaggagtaca ctgtgcgctt cacttttcca gacccccac
                                                                                     60
            cactcagccc tocagtgctg ggtctgcatg gtgtgacatt cggctaccag ggacagaaac
                                                                                    120
            cactetttaa gaacttggat tttggcateg acatggatte aaggatttgc attgtgggcc
                                                                                    180
            ctaatggtgt ggggaagagt acgctactcc tgctgctgac tggcaagctg acaccgaccc
                                                                                    240
            atggggaaat gagaaagaac caccggctga aaattggctt cttcaaccag cagtatgcag
                                                                                    300
            agcagetgeg catggaggag acgeecactg agtacetgea geggggette aacetgeeet
                                                                                  · 360
            accaggatge eegcaagtge etgggeeget teggeetgga gagteaegee cacaccatee
                                                                                    420
            agatetgeaa actetetggt ggteagaagg egegagttgt gtttgetgag etggeetgte
                                                                                    480
            gggaacctga tgtcctcatc ttggacgagc caaccaataa cctggacata gagtctattg
                                                                                    540
            atgctctagg ggaggccatc aatgaataca agggtgctgt gatcgttgtc agccatgatg
                                                                                    600
            cccgactcat cacagaaacc aattgccagc ttgtgggtgg tggaggaaca gagtggtagc
                                                                                    660
            ccaatcgatg gtgactttga agactacaag ccgggaggtg ttggaagccc tgggtgaagt
                                                                                    720
            catgggcage enggeceega naagtgaage tttnetttee agaagtntee gagagaacat
                                                                                    780
            aattgggggg gcctaaaann cctctggggg cttcccttct tttgaanaat gctntggnct
                                                                                    840
            gcaantgact tggcaaccat ttaggcccct taaagg
                                                                                    876
```

<211> 689 <212> DNA <213> Homo Sapiens

<400> 461

gcaaacaaga tocatttagt ggggaagagg ggactattaa aagctgctag aaaactgaat 60 aaagcaaatc aagactgaga acagttccaa ctcccatcaa tctccaaaca gtgacaggtc 120 qqcaqcaact cctttccttt atttcttccc cttgtaaagg gaaattcaag ttcagcagca 180 240 ttcctttcct gccccaagtc ctcaaccaga caagaggctg caggcaccaa atcttgggct 300 ggataatggc aaaggcctca gaagctcacc tccagctctg agcttcaaca gctgtttgta ccaqtqaqtc agcattaaat ccaccagaaa agaacagcac cacccaaaga ctggggggca 360 gctgggcctg aagctgtagg gtaaatcaga ggcaggcttc tgagtgatga gagtcctgag 420 acaataggee acataaactt ggetggatgg aaceteacaa taaggtggte acetettgtt 480 tgtttagggg gatgccaagg ataaggccag ctcagttata tgaagagaag cagaacaaac 540 aaagtettte agagaaatgg atgeaateag aagtgggate eeeggneaca teaaggteae 600 actocacctt catgtgcctg aaatggttgc caggtcaget gcaggcccan aggcagtctt 660 689 canaaggaag gggagaccac agaggactt

<210> 462 <211> 840 <212> DNA

<213≥ Homo Sapiens

<400> 462

aggageettt ggagtteeat geeaagegge ettggegeee egaggaggea gtagaagate 60 cggacgagga ggatgaggat aatactagtg aagccgagaa tgggttetec ctggaggaag 120 tgttacggct cggaggcacc aagcaagatt accttatgct ggctactttg gatgagaatg 180 aggaagtgat agatggaggc aaaaaaggag caatcgatga ccttcagcaa ggtgaattgg 240 aagcatttat tcaaaatctt aatttggcga agtatacaaa agcttcctta attgaagaag 300 atqaaccagc tgaaaaagaa aattccagca aaaaagaagt aaaaatacct aaaataaata 360 ataaaaatac agcagaaagt caaaggacat cagttaataa ggtgaaaaaat aagaataggc 420 cagaaccaca ttctgatgag aatggcagta ccacaccgaa agtaaagaaa gataaacaga 480 acatetttga attttttgag agacagaett tgttaettag geetggagge aaatggtatg 540 atctggagta cagcaatgaa tattctttga aaccccagcc tcaggatgtt gnatctaagt 600 acaaaaccet tgetcagaag etgtatcage atgaaatcaa ettattcaaa agtaagaega 660 atagtcaaaa gggagcctct tctacctgga tgaaaggcaa ttgtgtcatc ggggaccact 720 aggtgacagg atggcagcca ttgattette ttatteagga tgatgeeegt teacaceaet 780 ttcagnttgt agnaaactct tggggaaccc ttggtaaaaa ggaanggcna caaaacagca 840

<210> 463

<211> 784

<212> DNA

<213> Homo Sapiens

<400> 463

agatgtaagt agaattttaa totataattt acattaataa otcatttoot ttgtttttta 60 gttttttgag tggttttaat cctcttcttt ttaaaatgtt tcttttctt gatgatactt 120 tttgcatctc tgttgtgtag ccagtcatca cgttcagcct cccatctaag ctgtttgaga 180 cttqcattat ctttgttagc catggcattc atgccaatgt tatcaaactt ggatcccata 240 ttttcatcca atagatggcc aaactcttca gcagatacaa ataggctgga atcatttaag 300 tttcttttct tttttcttgg cccttgaaat gagccagcaa agtcaaaatc atctgtacct 360 tttctcttgc ttttcttagt actgactttg gagtggactt caagttctgg aacactctca 420 ctttcatcat ctaacacatc catgaatgtt cctccatctt catcaacttc agcaaattct 480 tcatcatcca tacttcctaa agaaacttca tcgtcatcca ggttaccaag ttcatcatca 540 ctacettetg aatetteate taatgtgtta teettagete ettttggtet ettttteaeg 600 ママ ひ フフ/ひでんひご エ しょいしじょいしょついょ

```
tttccagcaa aaatccatat catcctttnc agagctgaaa cagttatcat cttcaaatgt
                                                                        660
gtcaatcagc tcttcaaatt ctttcatcat ccacgtcctt ctaatacttt cttcaatctg
                                                                         720
catecoegtt tttggnttet ettttaanca geaacttttt ttatnaaace etgggggaaa
                                                                        780
                                                                        784
      <210> 464
      <211> 850
      <212> DNA
      <213> Homo Sapiens
      <400> 464
caggcatcgg ccaccggaac agcctggaga gcatctcttc catcgaccgg gagctgagcc
                                                                         60
ctgagggccc aggcaaggag aaggagctgc ctggacagac cctgcactgg gggcccgagg
                                                                         120
ccacagaage egeaggtegg ggtetgeage ccetgaaget ggaetacege geeetggeeg
                                                                         180
ccgtgcccag cgctggcagc gtgcagaggg taccgtctgg agcagctgga gggaagatgg
                                                                         240
ctgaatetee etgeteeest agtggeeage ageegeeste eeegeettet eeggatgage
                                                                         300
tgcccgccaa tgtgaagcag gcctacaggg ccttcgcggc cgtgcccact tctcacccgc
                                                                         360
etgaggatge ceetgeecag ceececaege etgggeetge ageeteeceg gageagetgt
                                                                         420
ccttccggga gcggcagaag tactttgagc tggaggtgcg cgtgccccag gccgagggcc
                                                                         480
cccctaagcg cgtgtccctg gtgggtgctg acgacctgcg gaagatgcag gaggaggaag
                                                                         540
ccagaaaact acagcagaag agagcgcaga tgctgcggga ggcggcagaa gctggggccg
                                                                         600
aagcgagget ngccetggae ggggagaege tgggegagga ggaacaggan gatgageage
                                                                         660
caccotgggc cagcocgage cocacttaag gcagaaccog gcgtcccccc ggccctggaa
                                                                         720
gtggcgcccc ggtgcggacg gncaaaagct gaacggggcc ancaggaacc ggttgccctt
                                                                         780
canagineeg gacccacegg gaccccaneg tgccctggte cettgeccaa ettecgggee
                                                                         840
ctggaaggcc
                                                                         850
      <210> 465
    T/ <211≥~7591 ## +@## 1 + +
 \operatorname{Li}(\mathbf{x},\mathbf{x}') = \operatorname{Li}(\mathbf{x}')
                                                                         377、2000、特别的人。就有57.5%。
    < <213 > Homo Sapiens
                                                                          to facility and the second
     Congress the water of the con-
                                    per Marie
                                                                         1 - 12 0 15 5 Cast 5
     Company of the second
                                                                           多。 以及为为重要的人会的
aaaatgtagt caactttatt ctccttaaac cacaaaatag agtctttggt tgtacaaaca
                                                                          60
tcactagtta cagtctcgcc gaggtctcgg ctggggtggg gcagttagtt agtcacaggc
                                                                         120
cagaacteet gtggggtete tttaaaatge taacacceag gttaaaagae ttggggeaag
                                                                         180
ggtggtgctg gagctggcag ggcccccacc ccaagtctgg gggaggtgcc tgctcctcta
                                                                         240
ggagggcaca gggcccaggc cacggcgccc aggccttacg gggcggcggc tgctgcacag
                                                                         300
tgccacatet teagggeeca eagegeeggg tgagggeetg eecagaagea ceagageeae
                                                                         360
ttntccatcc tectectgeg ggccaggget gggagatggt tecagggacc teaactecte
                                                                         420
agcaaagtcc ggtgacaggc gtcccgggga ggtgctggtc tgggggccga ggtcttccac
                                                                        480
aggggtgggc gacggggtgg gcgcagggga aggggcctcg gccagtcgct ccaggggccc
                                                                         540
cegegtgeec eggeetttet gggacetget gaggaceate tgggetengg aaagegteet
                                                                         600
tgttccaatg acttcatect ggctgccctt cacagngcac gcttntcggc ttcagggccc
                                                                         660
ggagctttgg canggggaca aggcaacgct tcgggtgccc ggtgggttcc ggacttttga
                                                                         720
acgcgccaan ccggttcctt ggngggcgcc cgtttcaac
                                                                         759
      <210> 466
      <211> 1240
      <212> DNA
      <213> Homo Sapiens
      <400> 466
gtggtagtgg tgccggagct ggaggcggag gcatgtttgg tagtggcggt ggaggagggg
                                                                         . 60
```

THE THE BY

120

gcactggaag tacaggtcca gggtatagct tcccacacta tggatttcct acttatggtg

ママ ひ ファバレマルリン

ggattacttt ccatcctgga actactaaat ctaatgctgg gatgaagcat ggaaccatgg 180 acactgaatc taaaaaggac cctgaaggtt gtgacaaaag tgatgacaaa aacactgtaa 240 acctetttgg gaaagttatt gaaaccacag agcaagatca ggageecage gaggeeaceg 300 ttgggaatgg tgaggtcact ctaacgtatg caacaggaac aaaagaagag agtgctggag 360 ttcaggataa cetettteta gagaaggeta tgcagettge aaagaggeat gecaatgeee 420 ttttcgacta cgcggtgaca ggagacgtga agatgctgct ggccgtccag cgccatctca 480 ctgctgtgca ggatgagaat ggggacagtg tcttacactt agcaatcatc caccttcatt 540 ctcaacttgt gagggatcta ctagaagtca catctggttt gatttctgat gacattatca 600 acatgagaaa tgatctgtac cagacgccct tgcacttggc agtgatcact aagcaggaag 660 atgtggtgga ggatttgctg agggctgggg ccgacctgag ccttctggac cgcttgggta 720 actctgtttt gcacctagct gccaaagaag gacatgataa agttctcagt atcttactca 780 agcacaaaaa ggcagcacta cttcttgacc accccaacgg ggacggtctg aatgccattc 840 atctagccat gatgagcaat agcctgccat gtttgctgct gctggtggcc gctggggctg 900 960 acgtcaatgc tcaggagcag aagtccgggc gcacagcact gcacctggct gtggagcacg acaacatctc attggcaggc tgcctgctcc tggagggtga tgcccatgtg gacagtacta 1020 cctacgatgg aaccacaccc ctgcatatag cagctgggaa agggtccacc aggctggcag 1080 ctcttcttaa agcagcagga gcagatcccc tggtgggaga ctttgagccc ttctatgacc 1140 tggatgactc ttgggaaaat gcaggaaaag gattgaagga gttggnctgg aancacgcct 1200 1240 tttaganatg ggccnccaac tggcaggnat ttggcctatt

<210> 467 <211> 885 <212> DNA

<213> Homo Sapiens

<400> 467

gtgccggagc tggaggcgga ggcatgtttg gtagtggcgg tggaggaggg ggcactggaa gtacaggtcc agggtatagc ttcccacact atggatttcc tacttatggt gggattactt 120 ggaaagttat tgaaaccaca gagcaagatc aggagcccag cgaggccace gttgggaatg . ...300 maken en acctettet agagaagget atgeagettg caaagaggea tgecaatgee ettttegaet : 22 2420 2 acgeggtgae aggagaegtg aagatgetge tggeegteea gegeeatete actgetgtge 480 aggatgagaa tggggacagt gtottacact tagcaatcat ccaccttcat totcaacttg / 2540 tgagggatet actagaagte acatetggtt tgatttetga tgacattate aacatgagaa 600 atgatetgta ecagaegeee ttgeacttgg cagtgateae taageaggaa gatgtggtgg 660 aggatttgct gagggctggg gcccgacctg agccttctgg acccgcttgg gtaactctgg 720 tttgcaccta gcttgcccaa agaaggacat gataaagttc tcaagtatct tacttaagcn 780 caaaaanggc agcactactt tnttgaccac ccccaacggg ggacggtctt gaatgccatt 840 catttaagcc atgatgagcc ataagcctgg catggtttgc tgctg 885

1.5.25

<210> 468 <211> 748

<212> DNA

<213> Homo Sapiens

<400> 468

gcaaatcaga gaaataacca cattagaaaa agcaatatge ctttttttt aaaatggcac 60 atcaagtgac teteatttta aaatatetet tttettaace ettaatttga atgcaaaatg 120 atgetgtggt cagaaggaat gceaggtgge gacegtgata cetttaatga caataggaac 180 gtagcagagg gacaacagca atgacaacag aaagcagetg tgatecagca gcagetggca 240 aagettagta agcaacetea teeccagatg catcegetea gecagtgttg tgattgetag 300 atactatetg taagtgaace aaactaaaat teatttatga accaagaaag gaagccaagt tgaaaaggte tegagttaaa tegagaatga tteaggeggg ceggetetet gagcacettt 420

```
ggatgcactt cagcttctgt cttgtggaaa cgcgtggaat tttagggctt tggtttacac
                                                                        480
ggtgtgggaa attgtcagca ggctaaattt tgccttctag aggtccttcc tgcccataat
                                                                        540
catggggcat tttgttgaga gttagcagtg aggcaccact ggtcagagac tcggtaaaqc
                                                                        600
tgagtttgcg gaaggatgtc tccacgccgc ttgtcgcaga cactgtcact ggcttcggag
                                                                        660
ctcgnctatt tgctgccttg tggaggcagg cgaaanaagc agcgagtggg ccctgaaaag
                                                                        720
gngggcnttc actgggctgg aaggcttg
                                                                        748
      <210> 469
      <211> 770
      <212> DNA
      <213> Homo Sapiens
     <400> 469
gcaaatcaga gaaataacca cattagaaaa agcaatatgc ctttttttt aaaatggcac
                                                                         60
atcaagtgac teteatttta aaatatetet tttettaace ettaatttga atgeaaaatg
                                                                        120
atgctgtggt cagaaggaat gccaggtggc gaccgtgata cctttaatga caataggaac
                                                                        180
gtagcagagg gacaacagca atgacaacag aaagcagctg tgatccagca gcagctggca
                                                                        240
aagettagta ageaacetea teeccagatg cateegetea gecagtgttg tgattgetag
                                                                        300
atactatctg taagtgaacc aaactaaaat tcatttatga accaagaaag gaagccaagt
                                                                        360
tgaaaaggtc tcgagttaaa tcgagaatga ttcaggcggg ccggctctct gagcaccttt
                                                                        420
ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac
                                                                        480
acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctgcccata
                                                                        540
atcatggggc attttggtga gagntagcag tgaggcacca ctggtcagag acttcggtaa
                                                                        600
agetgagttt gegggaaagg atgtntteea egeegettnt egeanacaet ggeaetgnet
                                                                        660
tgggageten getattttge ttgecettgt ggangeagge caaaanaage caaegaatgg
                                                                        720
ggccctgaaa aggngggcct tcanctgggc ttggaagctt gcctnggatc
                                                                        770
      <210> 470
                               To a little of the sign of the sign
      <211> 892
      <212> DNA
                              The grade state of the control of
                            POST ATT SERVICE CONTRACTOR
      <213> Homo Sapiens
                            The same with the stage and a second con-
      <400> 470
                              AT I FOR AT GLOBERT CONTRACT
agagtgctgg agttcaggat aacctctttc tagagaaggc tatgcagctt gcaaagaggc
                                                                         60
atgccaatgc cettttegac tacgeggtga caggagacgt gaagatgetg etggeegtee
                                                                        120
agegecatet caetgetgtg caggatgaga atggggacag tgtettacae ttagcaatca
                                                                        180
tecacettea tteteaactt gtgagggate tactagaagt cacatetggt ttgatttetg
                                                                        240
atgacattat caacatgaga aatgatctgt accagacgcc cttgcacttg gcagtgatca
                                                                        300
ctaagcagga agatgtggtg gaggatttgc tgagggctgg ggccgacctg agccttctgg
                                                                        360
accgcttggg taactctgtt ttgcacctag ctgccaaaga aggacatgat aaagttctca
                                                                        420
gtatettaet caageacaaa aaggeageae taettettga ceaeceeaae ggggaeggte
                                                                        480
tgaatgccat tcatctagcc atgatgagca atagcctgcc atgtttgctg ctgctggtgg
                                                                        540
ccgctggggc tgacgtcaat gctcaggagc agaagtccgg gcgcacagca ctgcacctgg
                                                                        600
ctgtggagca cgacaacatc tcattggcag gctgcctgct cctggagggt gatgcccatg
                                                                        660
tggacagtac tacctacgat ggaaccacac ccctgcatat agcagctggg aaagggtcca
                                                                        720
ccaggctggc agctcttctt aaagcagcag gagcagatcc cctggtggga gactttgagc
                                                                        780
ccttctatga cctggatgac tcttgggaaa atgcaggaaa aggattgaag gagttggnct
                                                                        840
ggaancacge ettttagana tgggceneca actggeaggn atttggeeta tt
                                                                        892
      <210> 471
      <211> 759
      <212> DNA
      <213> Homo Sapiens
```

~ 4

<400> 471

gcaaatcaga gaaataacca cattagaaaa agcaatatgc ctttttttt aaaaatggcac 60 atcaagtgac tctcatttta aaatatctct tttcttaacc cttaatttga atgcaaaatg 120 atgctgtggt cagaaggaat gccaggtggc gaccgtgata cctttaatga caataggaac 180 gtagcagagg gacaacagca atgacaacag aaagcagctg tgatccagca gcagctggca 240 aagcttagta agcaacctca tccccagatg catcegctca gccagtgttg tgattgctag 300 atactatctg taagtgaacc aaactaaaat tcatttatga accaagaaag gaagccaagt tgaaaaggtc tcgagttaaa tcgagaatga ttcaggggg ccggctctct gagcaccttt 420 ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac 480 acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctggccata atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga gccctgaaaa 720 gnggtcttca ctgggctgga agcttgnctg gatcacttt gatcacttt 759							
atcaagtgac tctcatttta aaatatctct tttcttaacc cttaatttga atgcaaaatg 120 atgctgtggt cagaaggaat gccaggtggc gaccgtgata cctttaatga caataggaac 180 gtagcagagg gacaacagca atgacaacag aaagcagctg tgatccagca gcagctggca 240 aagcttagta agcaacctca tccccagatg catccgctca gccagtgttg tgattgctag 300 atactatctg taagtgaacc aaactaaaat tcatttatga accaagaaag gaagccaagt tgaaaaggtc tcgagttaaa tcgagaatga ttcaggcggg ccggctctct gagcaccttt 420 ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac 480 acggtgtggg aaattgcag caggctaaat tttgccttct agaggtcctt cctgccata 340 atcatggggc attttgttg gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720	gcaaatcaga	gaaataacca	cattagaaaa	agcaatatgc	ctttttttt	aaaatggcac	60
atgetgtggt cagaaggaat gecaggtgge gacegtgata cetttaatga caataggaae 180 gtageagagg gacaacagea atgaeaacag aaageagetg tgateeagea geagetggea 240 aagettagta ageaacetea teeceagatg cateegetea gecagtgttg tgattgetag 300 ataetatetg taagtgaace aaactaaaat teatttatga aceaagaaag gaageeaagt 360 tgaaaaggte tegagttaaa tegagaatga tteaggeggg ceggetetet gageacettt 420 ggatgeacet cagettetgt ettgtggaca aegeagtgga attttaggge tttggtttae 480 aeggtgtggg aaattgteag caggetaaat tttgeettet agaggteett eetgeeata 540 ateatgggge attttgttga gagttageag tgaggeacea etggteagag aeteggtaaa 600 getgagtttg eggaaggatg teteeaegee getgteegea gacaetgtea etgnetegga 660 getegtetat ttgetgeett gtgaggeag gegananagg caaegagtgg geectgaaaa 720							120
gtagcagagg gacaacagca atgacaacag aaagcagctg tgatccagca gcagctggca 240 aagcttagta agcaacctca tccccagatg catccgctca gccagtgttg tgattgctag 300 atactatctg taagtgaacc aaactaaaat tcatttatga accaagaaag gaagccaagt 420 ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac 480 acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctgccata atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							180
aagettagta ageaacetea teeceagatg cateegetea gecagtgttg tgattgetag 300 ataetatetg taagtgaace aaactaaaat teatttatga aceaagaaag gaageeaagt 360 tgaaaaggte tegagttaaa tegagaatga teeaggeggg eeggetetet gageacettt 420 ggatgeacett eagettetgt ettgtggaca acgeagtgga attttaggge tttggtttae 480 aeggtgtggg aaattgteag eaggetaaat tetgeettet agaggteett eetgeeeata 540 ateatgggge attttgttga gagttageag tgaggeacea etggteagag acteggtaaa 600 getgagtttg eggaaggatg teteeaegee getgteegea gacaetgtea etgnetegga 660 getegtetat ttgetgeett gtggaggeag gegananagg eaaegagtgg geectgaaaa 720							240
atactatctg taagtgaacc aaactaaaat tcatttatga accaagaaag gaagccaagt tgaaaaggtc tcgagttaaa tcgagaatga ttcaggcggg ccggctctct gagcacctt 420 ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac 480 acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctgccata 540 atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							300
tgaaaaggtc tcgagttaaa tcgagaatga ttcaggcggg ccggctctct gagcacettt 420 ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac 480 acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctgcccata 540 atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							360
ggatgcactt cagcttctgt cttgtggaca acgcagtgga attttagggc tttggtttac 480 acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctgcccata 540 atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							420
acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt cctgcccata 540 atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							480
atcatggggc attttgttga gagttagcag tgaggcacca ctggtcagag actcggtaaa 600 gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							540
gctgagtttg cggaaggatg tctccacgcc gctgtccgca gacactgtca ctgnctcgga 660 gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							. 600
gctcgtctat ttgctgcctt gtggaggcag gcgananagg caacgagtgg gccctgaaaa 720							660
							720
	_						759
	335	555 55		- ,			

<210> 472

<211> 852

<212> DNA

<213> Homo Sapiens

#### <400> 472

gtggtagtgg tgccggagct ggaggcggag gcatgtttgg tagtggcggt ggaggagggg 60 gcactggaag tacaggtcca gggtatagct tcccacacta tggatttcct acttatggtg 120 ggattacttt ccatcctgga actactaaat ctaatgctgg gatgaagcat ggaaccatgg 180 acactgaatc taaaaaggac cctgaaggtt gtgacaaaag tgatgacaaa aacactgtaa 240 300 acctetttgg gaaagttatt gaaaccacag agcaagatea ggageecage gaggeeaceg ttgggaatgg tgaggtcact ctaacgtatg caacaggaac aaaagaagag agtgctggag 360 420 ttcaggataa cctctttcta gagaaggcta tgcagcttgc aaagaggcat gccaatgccc 480 ttttcgacta cgcggtgaca ggagacgtga agatgctgct ggccgtccag cgccatctca ctgctgtgca ggatgagaat ggggacagtg tcttacactt agcaatcatc caccttcatt 540 ctcaacttgt gagggatcta ctagaagtca catctggttt gatttctgat gacattatca 600 acatgagaaa tgatctgtac cagacgccct ttgcacttgg cagtgatcac taagcaggaa 660 720 qatqtqqtgg aggatttget gaagggetgg ggeeegacet tgageettte tggaeeeget tgggtaactc tgttttgcac cctaacttgc caaagaaggg cattgataaa ggtcttcaag 780 tatettaett eageceaaaa anggeageae taettntttg accaeeceaa egggggaegg 840 852 gcttgaatgc ca

<210> 473

<211> 804

<212> DNA

<213> Homo Sapiens

## <400> 473

gcaaatcaga gaaataacca cattagaaaa agcaatatgc ctttttttt aaaatggcac 60 atcaagtgac totcatttta aaatatotot tttottaaco ottaatttga atgcaaaatg 120 atgetgtggt cagaaggaat gecaggtgge gaeegtgata eetttaatga caataggaae 180 gtagcagagg gacaacagca atgacaacag aaagcagctg tgatccagca gcagctggca 240 aagcttagta agcaacctca tccccagatg catccgctca gccagtgttg tgattgctag 300 atactatctg taagtgaacc aaactaaaat tcatttatga accaagaaag gaagccaagt 360 tgaaaaggtc tcgagttaaa tcgagaatga ttcaggcggg ccggctctct gagcaccttt 420 480 ggatgcactt cagettetgt ettgtggaca acgeagtgga attttaggge tttggtttae acggtgtggg aaattgtcag caggctaaat tttgccttct agaggtcctt ccttgcccat 540 600 aatcatgggg cattitgttg agagttagca gtgaggcacc acttggtcaa gagactcggt 660 naagetgagt tttgeggaag gatgteteea egeeegetgt egeagaeaet gteaetgtet teggaacteg netatttget gnettgtgga ageaggenaa nanaageane gaantgggge 720 780 cctgaaaagn gggtcttcac ttggnctgga aggcttgccc tgggatcnct ttnaatgggc

```
ttcggnggaa ccccattttg tctt
                                                                     804
      <210> 474
      <211> 819
      <212> DNA
      <213> Homo Sapiens
      <400> 474
ggctgggctg cgcttgggtc cgtcgctgct tcggtgtccc tgtcgggctt cccagcagcg
                                                                      60
gcctagcggg aaaagtaaaa gatgtctgaa tatattcggg taaccgaaga tgagaacgat
                                                                     120
gageceattg aaataceate ggaagaegat gggaeggtge tgeteteeae ggttacagee
                                                                     180
cagtttccag gggcgtgtgg gcttcgctac aggaatccag tgtctcagtg tatgagaggt
                                                                     240
gtccggctgg tagaaggaat tctgcatgcc ccagatgctg gctggggaaa tctggtgtat
                                                                     300
gttgtcaact atccaaaaga taacaaaaga aaaatggatg agacagatgc ttcatcagca
                                                                     36Ó
gtgaaagtga aaagagcagt ccagaaaaca tccgatttaa tagtgttggg tctcccatgg
                                                                     420
aaaacaaccg aacaggacct gaaagagtat tttagtacct ttggagaagt tcttatggtg
                                                                     480
caggicaaga aagatettaa gaetggicat teaaaggggi tiggettigt tegittiaeg
                                                                     540
gaatatgaaa cacaagtgaa agtaatgtca cagcgacata tgatagatgg acgatggtgt
                                                                     600
gactgcaaac ttcctaattc taagcaaagc caagatgagc ctttgagaag cagaaaagtg
                                                                     660
tttgtggggc gctgtcagag gacatgactg aggatgaagc tgcgggagtt cttctttca
                                                                     720
gtancgggga tgtgatggat ggtcttcatn cccaagccat tcagggcctt tggctttggt
                                                                     780
catttgcaga tgaatcagat gcgccagtct ctttgtgga
                                                                     819
      <210> 475
      <211> 721
      <212> DNA
      <213> Homo Sapiens
     <400> 475
                                                                      1. 2016年1月 (2017年)
gcacaggaca cagaactgca gcaaacagca ttettatggg tagetaacag acattagaac
                                                                   5.120 Representation
ttccaccctt ctttgagaca cctgagctca ctggtgaact ctgcttcaag tcctcctgca
                                                                    3 18000 besettingen
aagcacacca caagctcagt ccatgttctc agcccatcag cttcagttca cattgccaca ... : 240200 acaccac
cttacatatc agtaacagaa gagaacacac accatacagc attcacagca gttgacaaag
                                                                     300 Aug 1, William III
gggtaggggg agtacaagta tcatttcact taacacattc atctaatgtg ggttatctaa
                                                                     360,500 34,580 5
gaacaaaaac tcacttaaaa gtcttccaac agatgtggat gtcctttgaa tgcaaaaaac
                                                                     420
attegracat tattigetat cattgetete tgeacactet eteaceaaag ccacaggatt
                                                                     480
gagagacaca tetegecaag ttaaaaaata teeattatge accaccaagt etetgeacge
                                                                     540
getetetet tttetegete atactageet tteatgeete ggeaceacea teaateceae
                                                                     600
acaaggtttc aaaagttcag acagccttct ggttccatat cacaggcctt gcgttcatag
                                                                     660
cggtgatacg acttcctgga aattaagagt ancggataaa aatgggacac ccaccggtaa
                                                                     720
                                                                     721
      <210> 476
      <211> 442
      <212> DNA
      <213> Homo Sapiens
      <400> 476
attnaaatca gtttnattna anantttcca ncanngncan ctntnataaa aggcntccan
                                                                      60
nencaggaen cananengea geaaneagen tintnanggg tagnitanean aenttaaane
                                                                     120
ttccaccntt ntttganacn cenganetna nngggganet nngnttcang necteengea
                                                                     180
angcacacca cangeteagn ecatgttntn ageceateag ntteagttna catngecaca
                                                                     240
nttnentate agtaccagaa gagacenene neentneage ntteneagea gtngneaaag
                                                                     300
gggtagggn agtccangta tcatttnant taccacattc atctaagggg ggttatctaa
                                                                     360
```

11 W 22/UTAUJ

.10 210 ...

naccaaaanc tcanttaaan gtnttccanc anangnggan gnccttngaa ngcaaaaanc 420 442 nttcgnccat nattggctat ca <210> 477 <211> 878 <212> DNA <213> Homo Sapiens <400> 477 ggtggctggg ctgcgcttgg gtccgtcgct gcttcggtgt ccctgtcggg cttcccagca 60 geggeetage gggaaaagta aaagatgtet gaatatatte gggtaacega agatgagaac 120 gatgagecca ttgaaatace ateggaagae gatgggaegg tgetgetete caeggttaca 180 gcccagtttc caggggcgtg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240 ggtgtccggc tggtagaagg aattctgcat gccccagatg ctggctgggg aaatctggtg 300 tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 3-6-0gcagtgaaag tgaaaagagc agtccagaaa acatccgatt taatagtgtt gggtctccca 420 tggaaaacaa ccgaacagga cctgaaagag tattttagta cctttggaga agttcttatg 480 gtgcaggtca agaaagatct taagactggt cattcaaagg ggtttggctt tgttcgtttt 540 acggaatatg aaacacaagt gaaagtaatg tcacagcgac atatgataga tggacgatgg 600 tgtgactgca aacttcctaa ttctaagcaa agccaagatg agcctttgag aagcagaaaa 660 gtgtttgtgg ggcgctgtca gaggacatga ctgaggatga agctgcggga gttcttcttt 720 780 aqtaccqqqq atgtgatgga tgtctttatt ccccaagccc nttcaggggc ttttggcttt ggtacatttg ccagatgatc agaatgccca gtctcttttg tggaaaagga ctttgatcat -840 ttaaagggaa tcagcggttc attatattcc aatggccc 878 <210> 478 <211> 768 <212> DNA <213> Homo Sapiens of the control of the  $(x,y) \mapsto (x+1) = (x,y)$ 1000年,11日本新聞 11日本 11日本 1996年1月1日 - 1996年1月1日 - 1996年1月 - 1996年11月 <400> 478 ggtgtcaaaa aaaaatttta tttatctggt tcaaaaaatt ttttagaatg aatgcattta 60. (40) 166 gattgaccaa atagattttt aaaaacaaat ctttgccaaa tagtttaagt acttttaaac 120 (M.S. All.) ttcaaaatct tcttagggta aaataaatac ccgtatctat gcagtaccat aaacatgtta 180 ataaaaggcc actcaacatt gaaagccttc tatgaccagt aactgaaatt tacacaagtg 240 taaagaaggg attaaaccat gccgttgaca agttaactta cccctgggct ccttgaagge 300 360 ttqtcaqttt agtctttgga ggtccccgag taccatttta agtgttacca tgttactgct gctgagtaat agtgcaagtg cattttaggt gcggtcaccc agacttattc aaaactagat 420 ttcaaaagaa aaaaaaaat tttcactttg gccaatgcaa gaacaaatac caattaagtc 480 tgggtatcag gtgtcaatgc atgacaggtg atgaatccat ttgacttgag acaacttttc 540 aaataagttt atttgaagca aaataaacta ctgccaagaa actttatgaa agttccatct 600 caaaagggtc aaaaaagggg aattaactgc tatgaattct ttgcattcag ggcgtcaaaa 660 720 qacqccqqcc tqnqgatqcc gtgatgacca attcttgaat gagaaagcat gtagaccgna tttcctatgg cagaaatatt tacnggccta ctttcaatgg aagngctt 768 <210> 479 <211> 815 <212> DNA <213> Homo Sapiens <400> 479 gegaageggt ggetgggetg egettgggte egtegetget teggtgteee tgtegggett 60 cccagcagcg gcctagcggg aaaagtaaaa gatgtctgaa tatattcggg taaccgaaga 120 tgagaacgat gagcccattg aaataccatc ggaagacgat gggacggtgc tgctctccac 180

240

ggttacagee cagtitiecag gggegtgigg gettegetae aggaatecag tgieteagig

**マア い ファ/いやんい**ょ

```
tatgagaggt gtccggctgg tagaaggaat tctgcatgcc ccagatgctg gctggggaaa
                                                                       300
tctggtgtat gttgtcaact atccaaaaga taacaaaaga aaaatggatg agacagatgc
                                                                       360
ttcatcagca gtgaaagtga aaagagcagt ccagaaaaca tccgatttaa tagtgttggg
                                                                       420
teteccatgg aaaacaaccg aacaggacet gaaagagtat tttagtacet ttggagaagt
                                                                       480
tettatggtg caggtcaaga aagatettaa gaetggtcat teaaaggggt ttggettgt
                                                                       540
tegttttaeg gaatatgaaa cacaagtgaa agtaatgtea cagegacata tgatagatgg
                                                                       600
acqatggtgt gactgcaaac ttcctaattc taagcaaagc ccagatgaac ctttgagaag
                                                                       660
cagaaaagtg tttgtggggg cgctgtacag angacatgac tgangataan cttcnggagt
                                                                       720
tettttttta atacegggat gtgatggatg etteatttee caacecatte agggeetttg
                                                                       780
nctttggtac catttgcaga tgatcanatt gccca
                                                                       815
      <210> 480
      <211> 812
      <212> DNA
      <213> Homo Sapiens
      <400> 480
gtggtgtcaa aaaaaatttt atttatctgg ttcaaaaaat tttttagaat gaatgcattt
                                                                        60
agattgacca aatagatttt taaaaacaaa totttgccaa atagtttaag tacttttaaa
                                                                       120
cttcaaaatc ttcttagggt aaaataaata cccgtatcta tgcagtacca taaacatgtt
                                                                       180
aataaaaggc cactcaacat tgaaagcctt ctatgaccag taactgaaat ttacacaagt
                                                                       240
gtaaagaagg gattaaacca tgccgttgac aagttaactt acccctgggc tccttgaagg
                                                                       300
cttgtcagtt tagtctttgg aggtccccga gtaccatttt aagtgttacc atgttactgc
                                                                       360
tgctgagtaa tagtgcaagt gcattttagg tgcggtcacc cagacttatt caaaactaga
                                                                       420
tttcaaaaga aaaaaaaaa ttttcacttt ggccaatgca agaacaaata ccaattaagt
                                                                       480
ctgggtatca ggtgtcaatg catgacaggt gatgaatcca tttgacttga gacaactttt
                                                                       540
caaataagtt tatttgaagc aaaataaact actgccaaga aactttatga aaagttccat
                                                                       600
cttcaaaagg ggtcaaaaaa ggggaattaa ctgctatgaa ttctttgcat tcanggctgc
                                                                       660
aaaacaaaga ccccatatta tttaaaatcc agtttattta agaatttncc accntggaca
                                                                       720
acttettatt aaaaaggent tecaggecca nggaccacag aaactgnang ccaaacange
                                                                       780
atttettatg gggtagetta ceaggaeett tt
                                                                       812
                          人名英克利 强制的现在分词使混合的形式
                                                      643 To 1
      <210> 481
                        A CONSTRUCTION OF THE CONTROL OF
      <211> 1127
      <212> DNA
      <213> Homo Sapiens
      <400> 481
gaggacagca atttaatggc aaaggaaaga caagacaggc tgcgaaacac gatgctgctg
                                                                        60
ccaaagcgtt gaggatcctg cagaatgagc ccctgccaga gaggctggag gtgaatggaa
                                                                       120
gagaatccga agaagaaaat ctcaataaat ctgaaataag tcaagtgttt gagattgcac
                                                                       180
ttaaacggaa cttgcctgtg aatttcgagg tggcccggga gagtggccca ccccacatga
                                                                       240
agaactttgt gaccaaggtt tcggttgggg agtttgtggg ggaaggtgaa gggaaaagca
                                                                       300
agaagatttc aaagaaaaat gccgccatag ctgttcttga ggagctgaag aagttaccgc
                                                                       360
ccctgcctgc agttgaacga gtaaagccta gaatcaaaaa gaaaacaaaa cccatagtca
                                                                       420
agccacagac aagcccagaa tatggccagg ggatcaatcc gattagccga ctggcccaga
                                                                       480
tecageagge aaaaaaggag aaggageeag agtacaeget ceteacagag egaggeetee
                                                                       540
cgcgccgcag ggagtttgtg atgcaggtga aggttggaaa ccacactgca gaaggaacgg
                                                                       600
gcaccaacaa gaaggtggcc aagcgcaatg cagccgagaa catgctggag atccttggtt
                                                                       660
tcaaagtccc gcaggcgcag cccaccaaac ccgcactcaa gtcagaggag aagacaccca
                                                                       720
taaagaaacc aggggatgga agaaaagtaa ccttttttga acctggctct ggggatgaaa
                                                                       780
atgggactag taataaagag gatgagttca ggatgcctta tctaagtcat cagcagctgc
                                                                       840
ctgctggaat tetteccatg gtgcccgagg tegcccagge tgtaggagtt agtcaaggae
```

atcacaccaa agattttacc agggcagete egaateetge caaggecacg gtaactgeca

tgatageceg agagttgttg tatgggggca ectegeceae agecegagae cattttaaag

900

960

1020

300

aataacatct cttcaggcca cgtaccccat ggacctctca cgagaccctn tgagcaactg	1080
gactatettt neagagteea gggattneag gttgaataee aagaett	1127
<210> 482	
<211> 773	
<212> DNA	
<213> Homo Sapiens	•
	• • •
<400> 482	
taccgcccct gcctgcagtt gaacgagtaa agcctagaat caaaaagaaa acaaaaccca	. 60
tagtcaagcc acagacaagc ccagaatatg gccaggggat caatccgatt agccgactgg	120
cccagateca qeaggeaaaa aaggagaagg agecagagta caegeteete acagagegag	180
qcctcccqcg ccgcagggag tttgtgatgc aggtgaaggt tggaaaccac actgcagaag	240
gaacgggcac caacaagaag gtggccaagc gcaatgcagc cgagaacatg ctggagatcc	300
ttggtttcaa agtcccgcag gcgcagccca ccaaacccgc actcaagtca gaggagaaga	360
cacccataaa qaaaccaggg gatggaagaa aagtaacctt ttttgaacct ggctctgggg	420
atgaaaatgg gactagtaat aaagaggatg agttcaggat gccttatcta agtcatcagc	480
agetgeetge tggaattett eccatggtge eegaggtege eeaggetgta ggagttagte	540
aaggacatca caccaaagat tttaccaggg cagctccgaa tcctgccaag gccacggtaa	600
ctgccatgat agcccgagag ttgttgtatg ggggcacctc gcccacagcc cgagaccatt	660
ttaaagaata acatetette aggeeaegta eeecatggae eteteaegag accetnigag	720
caactggact atctttncag agtccaggga ttncaggttg aataccaaga ctt	773
<210> 483	
<211> 794	
<212> DNA	
<213> Homo Sapiens	
<213> Homo Sapiens	
\$A <b>₹₹400&gt;</b> 6483	mus odd to dem (VBP)
ser<400>9483 cattagtage tgttnattga teaanggttn gatataaagt tattteanat etteanaett	at ve/60cm/active/trust
cattagtago tgttnattga toaanggttn gatataaagt tatttoanat ottoanaott ttgcccagat ggaatcacaa gcattacaaa gttttttott aaaaataaaa aaaggatagg	20 00 00 00 00 00 00 00 00 00 00 00 00 0
cattagtago tgttnattga toaanggttn gatataaagt tatttoanat ottoanaott ttgoocagat ggaatcacaa gcattacaaa gttttttott aaaaataaaa aaaggatagg	ন্য হছ <b>6 ০</b> ৯৮৯ নাম্যুক্ত চাইচ ্য <b>া2 ০</b> এ৮ ব ছিন্তু ন এ চা <b>টা ৪০</b> গ্ৰন্থ কৰা কৰিব
cattagtage tgttnattga teaanggttn gatataaagt tattteanat etteanaett ttgeecagat ggaateacaa geattacaaa gttttttett aaaaataaaa aaaggatagg ggeaagttgg gaggggaeca acetageagt agnggeattt ganaataaat tancaaaaaa atttagtatt aceattnatt gatgaeaaac acetaagttt taettacatt ecatggggag	ন কে60ক্ষরতান্ত্রাক্ষ ১৯20ক্ষর উন্তর এ ৪ <b>৯৪০</b> ব্যক্ত ক্ষরিক্ত ১০১ <b>২৫০</b> মহার ক্ষরিক
cattagtagc tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag aaaaattcca gcgtaaacaa tgaatggaag cagtacttaa ctcgcagggc taccaggctt	ন ভে60ফারনাম্রাট্রটা ১৯120ফার উল্লেখ্য ১ ড180ফ্র ক্ষার্থিত ১ ১240ফার ভেলেম্বর ১০০ - ১ ১ ১ ব
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag aaaaattcca gcgtaaacaa tgaatggaag cagtacttaa ctcgcagggc taccaggctt tccatacgga ccacacgcag agcctcagng cacacacttc tgtgtncagt ancacaacat	# 1006 0 and # 100 and
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat etteanaett ttgeecagat ggaateacaa geattacaaa gttttttett aaaaataaaa aaaggatagg ggeaagttgg gaggggacea acetageagt agnggeattt ganaataaat tancaaaaaa atttagtatt aceattnatt gatgacaaac acttaagttt taettacatt ecatggggag aaaaatteea gegtaaacaa tgaatggaag eagtaettaa etegeaggge taecaggett teeataegga ecacacgeag ageeteagng eacacactte tgtgtneagt ancacaacat caaaaggaac acagntgtat acagaaacgt aggteattet ttteageeet aanggagatg	######################################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat etteanaett ttgeecagat ggaateacaa geattacaaa gttttteett aaaaataaaa aaaggatagg ggeaagttgg gaggggacea acetageagt agnggeattt ganaataaat tancaaaaaa atttagtatt aceattnatt gatgacaaac acttaagttt taettacatt ecatggggag aaaaatteea gegtaaacaa tgaatggaag eagtaettaa etegeagge taecaggett tecataegga ecacaegeag ageeteagng eacacaette tgtgtneagt aneacaacat caaaagcaac acagntgtat acagaaacgt aggteattet ttteageeet aanggagatg taattaacag tategageac tntggaaaat eactetgeag gtttatatgg actacatgga	######################################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag aaaaaattcca gcgtaaacaa tgaatggaag cagtacttaa ctcgcaggc taccaggctt tccatacgga ccacacgcag agcctcagng cacacacttc tgtgtncagt ancacaacat caaaagcaac acagntgtat acagaaacgt aggtcattct tttcagccct aanggagatg taattaacag tatcgagcac tntggaaaat cactctgcag gtttatatgg actacatgga gatcatatcc tgtagtgtag	######################################
cattagtage tgttnattga teaanggttn gatataaagt tattteanat etteanaett ttgeecagat ggaateacaa geattacaaa gtttttett aaaaataaaa aaaggatagg ggeaagttgg gagggacea acetageagt agnggeattt ganaataaat tancaaaaaa atttagtatt aceattnatt gatgacaaac acetaagttt taettacatt ecatggggag aaaaatteea gegtaaacaa tgaatggaag eagtaettaa etegeagge taeeagget teeaaaageaac acagntgtat acagaaacgt aggteattet ttteageeet aanggagatg gateatatee tgtagtgtag tgaaagetaa gteeteaaga geeatatgta tagatneaca tagattetta ataatettta aaacagagat eaaagtteat ttaagneetg tttgeattae aagteettae aangeetg tagatneaca atgettetta ataatettta aaacagagat eaaagtteat ttaagneetg tttgeattae	######################################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gagggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag taccatacgga cagtacttaa ctgcaggag cagtacttaa ctgcaggag taccaggctt tccatacgga ccacacgcag agcctcagng cacacacttc tgtgtncagt ancacaacat caaaagcaac acagntgtat acagaaacgt aggtcattct tttcagccct aanggagatg gatcatatcc tgtagtgtag tgaaagctaa gtcctcaaga gccatatgta tagatncaca atgttttta ataatctta aaacagagat caaagttcat ttaagncctg tttgcattac caaaaataaa aatgaaataa aaatggaacc aaatgaacat ctaangttta aaattcctaa	300 - 1 1 1 1 1 2 0 4 8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag taccaggac cagaaactaca ggctcagng cacacacttc tgtgtncagt ancacaacat caaaagcaac acagntgtat acagaaacgt cacacacttc tttcagcct aanggagatg taattaacag tatcgagcac tntggaaaat cactctgcag gtttatatgg actacatgga gatcatatcc tgtagtgtag	### 100   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ###   ####   ####   ####   ####   ####   ####   ####   ####   ####   ######
cattagtage tgttnattga teaanggttn gatataaagt tattteanat etteanaett ttgeecagat ggaateacaa geattacaaa gtttttett aaaaataaaa aaaggatagg gagggaeca acetageagt agnggeattt ganaataaat tancaaaaaa atttagtatt aceattnatt gatgacaaac acttaagttt taettacatt eeataegga eeacaegeag ageeteagng eacacaette tgtgtneagt taecaagget teeataaggaa eacagaagga eacacaette tgtgtneagt taecaagget taetaaacat eaaaageaac acagntgtat acagaaacgt aggteattet tteeageect aanggagatg taattaacag tategageac tntggaaaat eacetetgeag gtttatatgg actacatgga gateatatee tgtagtgtag tgaaagetaa gteeteaaga geeatatgta tagatneaea atgttttta ataatettta aaacagagat eaaagtteat ttaagneetg tttgeattae eaaaaataaa aatggaaeca ttatneaact ggnggggaga ettatteaag ggttttgaaa gteeaggaac tggttteaag etggaaeeca ggggggeeec acaatttgge attenetgga aactggeeet	### 100 ### ###########################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag taccaggac cagaaactaca ggctcagng cacacacttc tgtgtncagt ancacaacat caaaagcaac acagntgtat acagaaacgt cacacacttc tttcagcct aanggagatg taattaacag tatcgagcac tntggaaaat cactctgcag gtttatatgg actacatgga gatcatatcc tgtagtgtag	20 24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gtttttctt aaaaataaaa aaaggatagg ggcaagttgg gagggacca acctagcagt agnggcattt ganaataaat tactacatt caatagtat accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag caaaaatacaa tgaatggaag cagtacttaa ctcgcaggge taccagget tcaatacaga acagntgtat acagaaacgt aggtcattct tgtgtncagt ancacaacat tattaacag tatcgagcac tntggaaaat cactctgcag gtttatatgg actacatgga gatcatatcc tgtagtgag tgaaagctaa atgttttta ataatctta aaacagagat caaaagtcat ttaagnoctg tttggatacaa atnggccaat ttatncaact ggngggaga cttattcaag ggttttgaaa gtccaggacc tggtttcaag ggggttaagc caggggcccc acaatttgg actacttga ggttttgaaa gtccaggaac tggtttcaag ggggggcccc acaatttgg attatcaag ggttttgaaa gtccaggaac tggtttcaag gggggttaagc caaa	### 100 ### ###########################
cattagtage tyttnattga teaanggttn gatataaagt tattteanat ttgedeagat ggaateacaa geattacaaa gtttttett aaaaataaaa aaaggatagg ggaagttgg gaggggacea acetageagt agnggeattt ganaataaat tancaaaaaa eattagtatt aecattnatt gatgacaaac acttaagttt taettacatt eecataggga ceacacgeag ageeteagng cagtaettaa etgatggaag cagtaettaa eagaaacgt taetaacag tategageac tntggaaaat eagateatet ttteageeet aanggagatg gateatatee tgtagtgtag tgaaagetaa gteeteagag geeteagag geeteagag geeteagag gateatatee tgtagtgtag	### 100 ### ###########################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat ttgcccagat ggaatcacaa gcattacaaa gtttttctt aaaaataaaa aaaggatagg ggcaagttgg gagggacca acctagcagt agnggcattt ganaataat tacttacatt accattnatt gatgacaaac acttaagttt tacttacatt ccatagggag cagaagcaac agcctcagng cacacacttc tgtgtncagt tactaacac acgntgtat acagaaacgt aggtcattct tttcagccct aanggagatg tactaacac tgtagtgtag tgaaagctaa cacacttc tttcagccct aanggagatg thitggaaaat cacacttct tgtagtncagt thitggaaaat cacacttct tgtagtncagt acacacact tgtagtgtag tgaaagctaa caaagttcat ttttcagccct aanggagatg actacatacc tgtagtgtag tgaaagctaa caaagttcat ttaagncctg ttttgcattac caaaaataaa aatgaaataa aaatggaacc aaatgaacat ttatncaact ggnggggaga cttattcaag ggttttgaaa gtccaggaac tggtttcaag ctggaaccca ggggggcccc acaatttgc attcnctgga acctaggaacct ggggttaagc caaa	### 100 ### ###########################
cattagtago tgttnattga tcaanggttn gatataaagt ttgcaanact ttgcccagat ggaatcacaa gcattacaaa gtttttctt aaaaataaaa aaaggatagg ggcaagttgg gagggacca acctagcagt agnggcattt ganaataaat tactacatt caaaagttca gcgtaaacaa tgaatggaag cagtactaa cactcagggg taccaacactt tgtgtncagt tactaacact tgaatgaaga cacacacttc tgtgtncagt ancacaacat tgaataacag acctcagng cacacacttc tgtgtncagt ancacaacat tactaagtt tactacatt ccatggggag taccaaagaac acagntgtat acagaaacg aggtcattct tttcagccct anggagatggatcatatcc tgtagtgtag tgaaagctaa gcctcaaga gccatcagag gtttatatgg accacacatt tgtagtttta ataatctta aaacagagat caaagttcat taagncctg tttgattcaag attgttttta ataatctta aaacagagat caaagttcat taagncctg tttgcattac caaaaataaa aatgaaataa aatggaacc agggggaga ccaaagttcat tttaagncctg tttgcattac caaaaataaa atgaaataa aatggaacc acaatttgga ggtttgaaa gtccaagaac ctaangtta aaattcctaa gggggttaagc caaa    <210 > 484	### 100 ### ###########################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat ttgcccagat ggaatcacaa gcattacaaa gtttttctt aaaaataaaa aaaggatagg ggcaagttgg gagggacca acctagcagt agnggcattt ganaataat tacttacatt accattnatt gatgacaaac acttaagttt tacttacatt ccatagggag cagaagcaac agcctcagng cacacacttc tgtgtncagt tactaacac acgntgtat acagaaacgt aggtcattct tttcagccct aanggagatg tactaacac tgtagtgtag tgaaagctaa cacacttc tttcagccct aanggagatg thitggaaaat cacacttct tgtagtncagt thitggaaaat cacacttct tgtagtncagt acacacact tgtagtgtag tgaaagctaa caaagttcat ttttcagccct aanggagatg actacatacc tgtagtgtag tgaaagctaa caaagttcat ttaagncctg ttttgcattac caaaaataaa aatgaaataa aaatggaacc aaatgaacat ttatncaact ggnggggaga cttattcaag ggttttgaaa gtccaggaac tggtttcaag ctggaaccca ggggggcccc acaatttgc attcnctgga acctaggaacct ggggttaagc caaa	### 100 ### ###########################
cattagtage tgttnattga tcaanggttn gatataaagt tatttcanat ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg gagggacca acctagcagt ganaataaat tacttagtatt accattnatt gatgacaaac agnaggaattta accattnatt gatgacaaac agcctcagng caacacctte tgtgtncagt taattaacag cacacacgag agcctcagng cacacactte tttcagccct ttcatacag tattgagagac tattggaaaacg taatgaaacg tattgagagac tattggaaaacg taatgagagac tattgagagac tattggaaaacg gacctcaaga gccctaagag gacctaatga gacctcaaga gacatatgta taatacacat taaaccttta aaacagagat caaaagtcaa tatancacaa tatggacaat ttatncaact ggngggaga cttattcaag ggttttgaaa gtccaggaac tggtttcaag ctggaaccca ggggggcccc acaatttga ggttttgaaa gtccaggaac tggtttcaag ctggaaccca ggggggcccc acaatttgg actaangtta taatcctaa aaatggaaca caaagtacat ttaagncctg tttgcattac aaatggacac ttatncaaca ggnggggaac cttattcaag ggttttgaaa gtccaggaac tggtttcaag ctggaaccca ggggggcccc acaatttggc acaatttggc aactcctaa	### 100 ### ###########################
cattagtagc tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg gagggacca acctagcagt agnggcattt ganaataaat tancaaaaaa acttaagttt tccatacagg cagtacataca acctaggagg cagtactta ccatggggag ccaacacgag agcctcagng cacacacttc ttgtgtncagt taccaacact taattaacag tattagaaag taattaacag tattagaaag cagtacttaa ctgaaggac ttgtgtncagt taacaaggat taattaacag taattaacag tattagaaag agcctcagng cacacacttc tttcagccct aanggagatg taattaacag tattagagaag tntggaaaat cactctgcag gtttatatgg actacatgga gacatatacc tgtagtgtag	20 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
cattagtagc tgttnattga tcaanggttn gatataaagt tatttcanat ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa atttagtatt accattnatt gatgacaaac cattaagttt tacttacatt tcatacgga ccacacgag agcetcagng cacacactte tgtgtncagt taccaggctt taattaacag tatcgagcac tntggaaaat cacacactte tttcagccct aanggagatggatatatacaa tgaatggaag cacacactte tttcagccct aanggagatggatatatacaaggatcatatcc tgtgtncagt accacacact tgtgtncagt accacacact tgtgtncagt accacacact tgtgtncagt accacacact tgtgtncagt accacacact aggtcattatacaca tgtagtgtag	120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120   120
cattagtago tgttnattga tcaanggttn ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg ggcaagttgg gagggacca acctagcagt gattagtatt accattnatt gatgacaaac tgaatggaag cagtacttaa ccattggag cagaagcaca acaagcaca tgaatggaag cagtacttaa ctaccaggat taccaaggat taccaaga gatcattac tgtagtgaag tacaaagtaa taccaagaag taccaagaag taccaaga gaccaaattac tacaagaagat aaaaggaaca aaatgaaataa aaatgaaaca aaatgaacaa tatancacaa tatancacaa tatancacaa tatancacaa taccaaggaggagaaga caaagtaat tacaagnoctg tttgcattac caaaaataaa aatgaaacaa aaatgaaaca tacaaggaggagaa ctatatcaag ggttttgaaa ggcccaaggaac tggttcaag ctggaaccca ggggggcccc acaaatttggc atcnctgga aactggccct ggggttaagc caaa	20 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

acctggagaa ttctgcagat tgggaagtga agacaataac aagtgccttg aaacagtatt

tgaggagtct tccagagcct ctcatgacct atgagttaca tggagatttc attgttccag.

rist out the section.

180

```
ccaaaagegg cageecagaa tetegtgtta atgegateca tttettggta cacaaaetge
                                                                      360
cagagaagaa taaagagatg ttggatattt tggtgaaaca cttaacaaat gtttcaaatc
                                                                      420
actccaagca gaacctgatg actgtggcaa acttaggagt ggtgtttgga ccaactctga
                                                                      480
tgaggccaca ggaagaaact gtcgctgcct catggacttg aagtttcaga atattgttgt
                                                                      540
ggaaatetta attgaaaace atgaaaagat tttteggaeg eegneegata etacatteee
                                                                      600
tgageceace tgeetgteag cateacecee aaatgegeea ecaangeagt enaagagaea
                                                                      660
aggncagaga accaagaagg cccgtgggcc gtctacaatc tttggctgga gctggaaaga
                                                                     . 7.2.0 .
tggtgacaat cettaceett teeanggagg acaeeeetta ceacagtetg gaeteaettt
                                                                      780
tcttcccg
                                                                      788
      <210> 485
      <211> 430
      <212> DNA
      <213> Homo Sapiens
      <400> 485
agtaaattac agtttatttc atttacagag accttgaggc aaaaaggtgg tgtttggaaa
                                                                       60
acagcacacg ggtgaggagc accggagaag cctgttacaa atacgccagt gcacgctgcc
                                                                      120
agtgcagtga gtgtggggtc ctgcaggtgg ccgtctagga agggcaggct tgagacgcgc
                                                                      180
gtctctgctt ccctntgact tgagaccatc tcccttgnac caacagcagc ttntccaagc
                                                                      240
taggetgeca cagecaagea caeactetge aaacetatea etgegagtng tacagtteee
                                                                      300
tttanaatcg nagcagcang tgctcaggga ggagagggag ccnnngtggc tctggtggcg
                                                                      360
tgactgccag tgnaggcgga cacangtggc ataaggctgc ccgtcccctc tcattcttat
                                                                      420
atgctgngat
                                                                      430
      <210> 486 -
      <211> 831
      <212> DNA
      <213> Homo Sapiens
                                              Maria Garaga
                                           <400>:486
                                            the transfer of the second
                                                                        Sec. 3.75
aaagtgtagt gccatcgaca caggctgtca cgttttcccc ttctttcac aatcaagcaa
                                                                       60 ஆர்க்க
ttatggtgac aaaaccagtg caggaatata aaaaggaata cacagtgcag caggccttgt
                                                                      120
tttgtacttc tggaattgtt acttctatac cggtgccctt ggcaggaagt gcccttctcc
                                                                      180
catatcatat ttcatctact gcatgtcagg ccaaggctca tctgtcatct gatgatagta
                                                                      240 ↔
attcaaatgg tgattctgcc caagtgcata ttgccacaaa aaacagagaa gaaaaagcag
                                                                      300
cttgtctcag aaatatttgt ttaccttcag aacacaatcc aggtaatcag aatgatttta
                                                                      360
aaccaactaa tgacgatatt gaaatgcaga gttcctcaaa attaccaaat gatcctgcaa
                                                                      420
ttattagcaa cttttctgca gcagtggtgc atacgatagt aaatgaaact ttagagtcaa
                                                                      480
tgacatcatt ggaagttaca aaaatggttg atgaacgtac agattattta actaaatctt
                                                                      540
taaaggagaa aacccctcca ttttcccact gtgatcaggc agtgctgcaa tgcagtgaag
                                                                      600
ctagtagcaa taaggacatg tttgctgacc ggttatctaa atctattatt aaacattcca
                                                                      660
tagataagag caaatcagtg atcccaaata tagataaaaa tgcagtatac aaggaaagct
                                                                      720
tgcctgtttc tggagaagaa tcacagttga cacccagaaa agtcttncca aatttnctga
                                                                      780
ctcttcagaa tcagtttaac ttactggttc acttttagct gcaaaggaat g
                                                                      831
      <210> 487
      <211> 728
      <212> DNA
      <213> Homo Sapiens
      <400> 487
gacggagtet gtetetgteg eccaggatgg agtacagtgg cacaatetea geteactgea
                                                                       60
atetetgeet eccaggitea ageaattete etgeettage etcecaagia geigggatta
                                                                      120
caggtgcctg ccaccacgcc tggctaattt ttgtattttt ggtagagacg gggtttcacc
```

1 しょ/ しいけいはつい/ノ マング フブ/レタルレン

```
atgttgccca ggctggtctt gaactcctga cctcaagtga tccaccccca ccccattgg
                                                                       240
cttcccagag ttctgggatt acaggcgtga atcaccgcgc ccagcccaaa tcgccgaagt
                                                                       300
ctttatctcc taccttgatc tctgtagcag aaaagaacag tatagatatc aattgtcatc
                                                                       360
aacagatgca acatatcttg taaatcaata tattttcaag tgaggtctct gaatcacctg
                                                                       420
cactgaaatc atctgtgatg cttatcaagc atgcagattc tcaggaccct tcactgactt
                                                                       480
                                                                       540
cataaatett catetetgga ggtgagaeee tggacaetgt atatgeaaeg ageaeaeeae
caatcctgga tgagccccgc tttttctctg tgccagaacc ttaatgccac gcagcattac
                                                                       600
attaagtcac attacaactt tggtcaatgg aaacacaggg tctttttctg acaaaatgcc
                                                                       660
atcaagccag gtttggctcc ccacttaagt tcaaatnttt aatcattaat tttctgagcc
                                                                       720
                                                                       728
taaaatgc
      <210> 488
      <211> 788
      <212> DNA
      <213> Homo Sapiens
```

<400> 488

gtgggccctg tcctttctcc ccagctcctg ccccggagcc gggccctggc gaggcaggaa 60 tggccccgag gcctccgacc gccgcgcccc aggaatcagt gacattcaaa gatgtgtctg 120 tggacttcac ccaggaagaa tggtaccatg tcgaccctgc tcagaggagc ttatacaggg 180 atgtgatget ggagaactat agecaectgg tttetettgg atateaagtt tecaagecag 240 aggtgatctt caaattggag caaggagaag agccatggat atcagaggga gaaatccaac 300 gacetteta tecagactgg aagaccagge etgaagteaa ateateacat ttgcagcagg 360 atgtatcaga agtatcccac tgcacacatg atctcttaca tgctacatta gaagactcct 420 gggatgttag cagccagtta gacgggcaac aggaaaactg gaagagacat ctgggatcag 480 aggcatccac ccagaagaaa ataattacac cacaagaaaa ttttgagcaa aataaatttg 540 gtgaaaattc tagattgaac accaatttgg ttacacaact gaacattcct gcaagaataa 600 ggcctagtga atgtgagacc cttggaagca atttgggaca taatgcagac ttacttaatg 660 agaataatat tottgoaaaa aagaaaccot tttagtgnga taatgtagaa aagnotttan 720 tcatagatca tegnttacta aaecttgaga aaacceetta anggaaaagg gagettteet 780 788 医脱骨 医性性性

•

一定實施的研究 独立 经产品的证据 <210> 489 1771.144数原数数 14.5年11.17.17

And the second second <211> 875

<212> DNA

<213> Homo Sapiens

<400> 489

aaagagatgg ggtttcacca tgttgtccag gctggtcttg aactctgggt tcaagcagtc 60 tatctgcctt agccacccaa agtgctggga ttacaggtgt gagacaccat acctagccaa 120 gttaattttt ttaatggtga aatcttttct ttgcacataa aatgagccag tgcatgttgc 180 ttctctgagt acaagacaaa atttatggca atgggcaatt agacttatac ttttctgcaa 240 gaaaattaac gggaaaattc teetettagt tttetgttgt ttteecattg atetgataet 300 gtaggettaa gaaagtgett ttteatggge atgeeataaa aagtacaata aggggaetta 360 atagttctgt gaaactggca tatgttagct gaaagtataa ttgtaactgg gaaaagggga 420 aaaaagtcac tagtagttca accatctaca gtttctgtta aattgtggtt tgtaagcctc 480 caagaagttg ctttaaatag tttgtgataa atttgcatac attttgctcc cacttatact 540 tttaagaatt ctcaaagtgt ccaacccata ggtgcccatt aaatgtttgt gtatctgatc 600 atcttaaaat ttattttaaa gccctctgag tcccaaaaat aaccttttca ctggcaaggc 660 catggggccc caaatccagg aaaccctggc atttttaacc caacttttac ccttataggc 720 tggaatcata ctgngggaaa cccacttcac atcttttggc tttcagtctt caatctgncc 780 cnaatggaaa atgggttggg cctagttgga actaaattct tttgaatggg ggactttcct 840 875 ggaaattggg aactnggttt ccatggggga aagtt

**ママ ぴ** *フフ*/ひせんひご <211> 844 <212> DNA <213> Homo Sapiens <400> 490 aagtgtttga gattgcactt aaacggaact tgcctgtgaa tttcgaggtg gcccgggaga 60 qtggcccacc ccacatgaag aactttgtga ccaaggtttc ggttggggag tttgtggggg 120 aaggtgaagg gaaaagcaag aagatttcaa agaaaaatgc cgccatagct gttcttgagg -1-80 agctgaagaa gttaccgccc ctgcctgcag ttgaacgagt aaagcctaga atcaaaaaga 240 aaacaaaacc catagtcaag ccacagacaa gcccagaata tggccagggg atcaatccga 300 ttagccgact ggcccagatc cagcaggcaa aaaaggagaa ggagccagag tacacgctcc 360 tcacagageg aggeeteeeg egeegeaggg agtttgtgat geaggtgaag gttggaaaee 420 acactgcaga aggaacgggc accaacaaga aggtggccaa gcgcaatgca gccgagaaca 480 tgctggagat ccttggtttc aaagtcccgc aggcgcagcc caccaaaccc gcactcaagt 540 cagagg<del>agaa gacacccata aagaaaccag gggatggaag aaaagtaacc tttttt</del>gaac-6-0-0ctgctcttgg ggatgaaaat gggactagta ataaagagga tgagttcagg atgccttatc 660 taagtcatca gcagctgcct gctggaattc tttccatggt gcccgangtc gcccaagctg 720 taggaagtta gtcaaggaca tnacacccaa gattttacca ggcagcttcg aatcttgcca 780 ngqcncngta ctgccatgat agcccanagt tgttgtattg gggcancttt gccccaggcc 840 ggga 844 <210> 491 <211> 825 = <212> DNA <213> Homo Sapiens <400> 491 . 60 ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaataaaa aaaggatagg hage120gs loges agas ggcaagttgg gaggggacca acctagcagt agtggcattt gagaataaat taacaaaaaa agaal80.tgg qaa qaa atttagtatt accatttatt gatgacaaac acttaagttt tacttacatt ccatggggag herwiz240att in his aaaaattccapgcgtaaacaa tgaatggaag cagtacttaa ctcgcagggc taccaggctt peaa300ccapgculus tocatacgga coacacgoag agoctcagtg cacacactto tgtgtacagt aacacaacat <u>comma600goga coa</u>c 420 9 1480 C 7 14 5 E 540

cattagtagc tgtttattga tcaatggttt gatataaagt tatttcanat cttcagactt caaaagcaac acagctgtat acagaaacgt aggtcattct tttcagccct aatggagatg taattaacag tatcgagcac tctggaaaat cactctgcag gtttatatgg actacatgga gatcatatcc tgtagtgtag tgaaagctaa gtcctcaaga gccatatgta tagatacaca atgtttttta ataatettta aaacagagat caaagtteat ttaaagteet gtttgeatta 600 acaaaaataa aaatganaat aaaaatggac caaatgatca tctaaagttt aaaattccta 660 aatggtccaa tttatacaac tgggggagac ttattcaagg tttttgaaag tccaggactg 720 gtttcagctg aaccagangg cccccaattt gcatcactgg aactgncctg ggtttagcca 780 aggaaattaa aaaagnetta acceeettee eetgggattt gaace 825

<210> 492 <211> 946 <212> DNA <213> Homo Sapiens

<400> 492

gaggacagca atttaatggc aaaggaaaga caagacaggc tgcgaaacac gatgctgctg 60 ccaaagcgtt gaggatcctg cagaatgagc ccctgccaga gaggctggag gtgaatggaa 120 gagaatccga agaagaaaat ctcaataaat ctgaaataag tcaagtgttt gagattgcac 180 ttaaacggaa cttgcctgtg aatttcgagg tggcccggga gagtggccca ccccacatga 240 agaactttgt gaccaaggtt teggttgggg agtttgtggg ggaaggtgaa gggaaaagca 300 agaagattte aaagaaaaat geegeeatag etgttettga ggagetgaag aagttaeege 360 ccctgcctgc agttgaacga gtaaagccta gaatcaaaaa gaaaacaaaa cccatagtca 420

```
agecacagae aageceagaa tatggeeagg ggateaatee gattageega etggeecaga
                                                                                                                          480
tccagcaggc aaaaaaggag aaggagccag agtacacgct cctcacagag cgaggcctnc
                                                                                                                          540
egegeegeag ggagtttgtg atgeaggtga aggttggaaa ceacacttge agaaggaaeg
                                                                                                                          600
ggcaccaaca agaaggtggc caagegcaat gcaccegaga acatgctgga gatccttggt
                                                                                                                          660
ttcaaaagtc ccgcangcgc agcccaccaa acccggactn aagtcagang agaagacccc
                                                                                                                          720
attaaggaaa ccangggatg gaagaaaagt ancnttttga anctggctnt tgggattaaa
                                                                                                                          780
atgggettgt antaaagagg atgagtteag gatgnentat etaagteatn aacaettget
                                                                                                                           840
gctggaaatc tttccatggg ggccgaggtc neccagettt taggagttat canggcentt
                                                                                                                          900
concocaaga attttcccgg gcagtttcca atctgccaag gccccg
                                                                                                                           946
           <210>. 493
           <211> 804
           <212> DNA
           <213> Homo Sapiens
           <400> 493
gqtctttatg tgcttaaata acgctgaatt ataattagcc acacaaataa tgagagtttt
                                                                                                                            60
attititit tetggeteac tecaaateag cetgttaagg tatattieet tetacageet
                                                                                                                           120
ttcctgattt tgcatgttct cattcccaaa gtagtctacc ttagtttaca ctcaaaggta
                                                                                                                           180
geactigiting anactacate acagaaacae getecaaaeg tegacaaege gaagcatete
                                                                                                                           240
cctcttgtct tgataaatca gtgccacaca cagaacccac attttctgag acattatctt
                                                                                                                           300
cattatagag cogtttgatt coatcataga agtcatccac ttccatttcc tctactttgc
                                                                                                                           360
gittagtaga ggtctgcttg cacccactgg cagctgggag atgatggtaa aaggctgctg
                                                                                                                           420
 tacctctgac tggcacttct ggcttgctgt tgtccttgga gaagtctggg cctgggacag
                                                                                                                           480
 aggagggatg taatetgaae acteetttgt cacaggteae cagggtgtge ttgaggggae
                                                                                                                           540
ggtagacata aacggaattc agaggcaggg aagactgcag agtanaaagg tgatgtgccc
                                                                                                                           600
 aagcttccga ccatggatca actgggagct atneatctgg ctttctgaag cagntcaatt
                                                                                                                           660
 gtaagagaaa gcccaatcon ggaatggagt tentecattt teagactaac cetgggenen
                                                                                                                           720
 aagcaaggca tgggatcccc tggaattgcc anaaanttgg gttgcagggn ccatacncgg
                                                                                                                         780′′
nggnaagtaa ttngctttgg gtaa
                                                                   A POST OF THE PROPERTY AND A SECOND OF THE PARTY OF THE P
                                                                                                                       804
          17.35
                                                                               <210> 494
                                                                                                                          1965年7月1日
                                                                              等级数数数数据 经证券 经收益帐户
     ---. 211> 856
                                                                               CONTRACTOR OF THE CONTRACTOR
           <212> DNA
           <213> Homo Sapiens
            <400> 494
 gaaaggttgg aaagaataaa tagggccagg gaacaaggat ggagaaatgt gctaagtgct
                                                                                                                            .60
 ggtggaagtg gtgaagtaaa ggctcctttt ctgggcagtg gagggactat agctccatca
                                                                                                                            120
 tetttttett etegaggaca gtatgaacat taecatgeca tttttgacca aatgeagcaa
                                                                                                                            180
 caaagagcag aagataatga agctaaatgg aaaagagaaa tatatggtcg aggtcttcca
                                                                                                                            240
 gaaaggcaaa aagggcagct agctgtagaa agagctaaac aagtagaaga gttcctgcag
                                                                                                                            300
 cgaaaacggg aagctatgca gaataaagct cgagccgaag gacatatggg aatcctgcaa
                                                                                                                            360
 aacctggcag ctatgtatgg aggcaggccc agctcttcaa gaggagggaa gccaagaaac
                                                                                                                            420
  aaagaggaag aggtttatct ggcaagactg aggcaaataa gactacagaa tttcaatgag
                                                                                                                            480
  cgccaacaga ttaaagccaa acttcgtggt gaaaagaaag aagctaatca ttctgaagga
                                                                                                                            540
  caagaaggaa gtgaagaggc tgacatgagg cgcaaaaaaa atcgaatcac tgaaggccca
                                                                                                                            600
  tgcaaatgca cgtgctgctg tctaaaagaa cactagaacg aaagagaaag gaggcttatg
                                                                                                                            660
  agagagaaaa aaaagtgtgg gaagagcatt tggtggctaa aggagttaag agtctgatgg
                                                                                                                            720
  ttcttcccct ttgggaccag catgaaacaa ggtggctttt ccttcaaagc caccggatga
                                                                                                                            780
  aaanctggta nttctggnac ttcacttttn aagaanttgg ccgtggnngt agtttaactg
                                                                                                                            840
  gatacccggg aacttc
                                                                                                                            856
```

<210> 495 <211> 757

March 1

```
<212> DNA
<213> Homo Sapiens
```

### <400> 495

agataataaa aatttaatag caatatcata aaataaacac acatattaaa aaatcaagta 60 tttagtttcg gatattagaa ataatataca taataaattc aacatactga tagtgctgca 120 agataagatt ttatttttca aattacatat tatgccaacc-agcctgcttt ggactcagag-180 gttcaaaaac tttgctttta ttacgaagaa catntggact gtagacacct ntaacgaaac 240 caggitatac tiggicatati gngatigaag cigtigatic aacatottaa tgacctaact 300 aaatcctntc ataacagaaa gaagttcaac aggcaaacat ttccctccct aggatcctag 360 ttaccaaaac tgtcacagng ncaaaataaa aataattatt tcctcctttt taacatctta 420 ttgnccttga agcttatgta tggaggaagt taaaaaccaa aagagcaact ttaagctata 480 tgctaagtca gngttaaatc cacagactaa tttttcgata tagnattcct ggntctggnc 540 cttaaagaga aataaaggca ttaaaccact tttttatatg tcaaggaaat ataatttnge-600tattetttea taateaaate ttteaatgga tttetaagae tggnttetae ageetgngng 660 ctagttccag gggacacact gattgtaaaa nggacttggn ggaaatntaa aactttaagg 720 gctaaaaaat ttcatctttc aaaatgntnt agatgtt 757

<210> 496 <211> 1759 <212> DNA

<213> Homo Sapiens

# <400> 496 '

cgaggateca ggegeaggag gaeagageaa tgggtgagag aactetteae getgeagtge 60 ccacaccagg ttatccagaa tctgaatcca tcatgatggc ccccatttgt ctagtggaaa 120 accaggaaga gcagctgaca gtgaattcaa aggcattaga gattcttgac aagatttctc 180 agcccgtggt ggtggtggcc attgtagggc tataccgcac aggaaaatcc tatctcatga 240 oggress and alterestic aggaaagege aatggettee etetgggete caeggtgeag tetgaaaetametagg300.00 the surragggeatety gatgtggtgt gtgeeceace tetetaagee aaaceacae etggteette. 341.3360.41. An a statiggacacega gggeetggge gatgtagaaa agagtaacee taagaatgae tegtggatetke ga#420 = ttgccctggc tgtgcttcta agcagcaget ttgtctataa cagcgtgagc accatcaacc  $\sim 10^{10}$  sampaccaggoodt ggagcagetg: cactatgtga etgagetage agagetaate agggeaaaat  $\sim 600.540$   $\sim$ cctgccccag acctgatgaa gctgaggact ccagcgagtt tgcgagtttc tttccagact ttatttggac tgttcgggat tttaccctgg agctaaagtt agatggaaac cccatcacag ...660: aagatgagta cctggagaat gccttgaagc tgattccagg caagaatccc aaaattcaaa 720 attcaaacat gcctagagag tgtatcaggc atttcttccg aaaacggaag tgctttgtct 780 ttgaccggcc tacaaatgac aagcaatatt taaatcatat ggacgaagtg ccagaagaaa 840 atotggaaag goatttoott atgcaatcag acaacttotg ttottatato ttoaccoatg 900 caaagaccaa gaccctgaga gagggaatca ttgtcactgg aaagcggctg gggactctgg 960 tggtgactta tgtagatgcc atcaacagtg gagcagtacc ttgtctggag aatgcagtga 1020 cagcactggc ccagcttgag aacccagcgg ctgtgcagag ggcagccgac cactatagcc 1080 agcagatgge ccageaactg aggeteecca cagacacget ccaggagetg etggacgtge 1140 atgcagcctg tgagagggaa gccattgcag tcttcatgga gcactccttc aaggatgaaa 1200 accatgaatt ccagaagaag cttgtggaca ccatagagaa aaagaaggga gactttgtgc 1260 tgcagaatga agaggcatct gccaaatatt gccaggctga gcttaagcgg ctttcagagc 1320 acctgacaga aagcattttg agaggaattt tetetgttee tggaggacae aatetetaet 1380 tagaagaaaa gaaacaggtt gagtgggact ataagctagt gcccagaaaa ggagttaagg 1440 caaacgaggt cetecagaac tteetgeagt caeaggtggt tgtagaggaa tecateetge 1500 agteagacaa ageceteaet getggagaga aggeeatage ageggagegg geeatgaagg 1560 aagcagctga gaaggaacag gagctgctaa gagaaaaaca gaaggagcag cagcaaatga 1620 tggaggetea agagagaage ttteaggaat acatggneea aatggagaag aagttggagg 1680 angaaaggga aaaccntntc agagagcctt gaaaaggttg ctaaaacaca agcttgaagg 1740 tncagaagaa aatgcttaa 1759

エ シスパシロクのコマリノ

<211> 842 <212> DNA

<210> 497

<213> Homo Sapiens

<400> 497

atgacaagca atatttaaat catatggacg aagtgccaga agaaaatctg gaaaggcatt . 60 tecttatgea ateagacaac ttetgttett atatetteae ecatgeaaag accaagacee 120 tgagagaggg aatcattgtc actggaaagc ggctggggac tctggtggtg acttatgtag 180 atgccatcaa cagtggagca gtaccttgtc tggagaatgc agtgacagca ctggcccagc 240 ttgagaaccc agcggctgtg cagagggcag ccgaccacta tagccagcag atggcccagc 300 aactgagget ecceacagae aegetecagg agetgetgga egtgeatgea geetgtgaga 360 gggaagccat tgcagtcttc atggagcact ccttcaagga tgaaaaccat gaattccaga 420 agaagcttgt ggacaccata gagaaaaaga agggagactt tgtgctgcag aatgaagagg 480 catctgccaa atattgccag gctgagctta agcggctttc agagcacctg acagaaagca 540 ttttgagagg aattttctct gttcctggag gacacaatct ctacttagaa gaaaagaaac 600 aggttgagtg ggactataag ctagtgccca gaaaaggagt taaggcaaac gaggtcctcc 660 agaactteet geagteacan gtggttgtag aggaateeat eetgeagtea gacaaageee 720 tcactgctgg agagaaggcc atacaaccgg aaccgggcca tgaaggaagc acttgagaag 780 gaacaggagc tgcttagaga aaaaccgaag gagccagcag ccaaatggat ggaggctcaa 840 842

<210> 498

<211> 707

<212> DNA

<213> Homo Sapiens

<4.00>, 498

gagcaataaangctttttaat.cacctgggtg caggetgget gagtccgaaa agacagtcag 10 1 60 haansutt to 10 tgaagggaga:tagggttggg.accattttac aggatttggg ttggtaaagg aaaattacag 1120000年 日報日本記 **1180**台基本 并2007 (1) tcaaaggggg ttgttctctg gcgggcagag gtgggtgtca caagttgctt agtgggggag cttttgagccmaggatgagccmaggagaaggamatttcacaag gtaatgtcat cagttaaggc **240**.978.5 usquettes: aggaacaggoscattttcact: tottttgtga attottcactt gottcaggoc atotggacgt and 300 ggo banden atgtacatgc aggtcacagg ggatatgatg gcttagcttg ggctcagagg cctgacattt 360 façili 2000 ildə i agtatattta ctggaatatt caggetetta aatacgtgag ccaagatatt ttgtccctac 420 100 4 100 tccaagtage ttggaageee caggtagagt gacaateatt atgttgctag ccatgtcaag 480 gatctttaag agccttaact gttcattttt agtgctttca attttttctt tcagttgatt 540 aatctcttta tttaactgct cagatttctt ttgaaattct tccttaagca tttcttcttg 600 naccttcagc ttggggttta acagcctttc atgctctctg aaaagggttt ncctttcctn 660 707 cttcaacttc ttctccattt gggccatgna ttcctggaag cttctct

<210> 499

<211> 772 ·

<212> DNA

<213> Homo Sapiens

<400> 499

gtggagcagt accttgtctg gagaatgcag tgacagcact ggcccagctt gagaacccag 60 cggctgtgca gagggcagcc gaccactata gccagcagat ggcccagcaa ctgaggctcc 120 ccacagacac gctccaggag ctgctggacg tgcatgcagc ctgtgagagg gaagccattg 180 cagtetteat ggageactee tteaaggatg aaaaccatga atteeagaag aagettgtgg 240 300 acaccataga gaaaaagaag ggagactttg tgctgcagaa tgaagaggca tctgccaaat attqccaqqc tgagcttaag cggctttcag agcacctgac agaaagcatt ttgagaggaa 360 ttttctctgt tcctggagga cacaatctct acttagaaga aaagaaacag gttgagtggg 420 480 actataagct agtgcccaga aaaggagtta aggcaaacga ggtcctccag aacttcctgc

```
agtcacaggt ggttgtagag gaatccatcc tgcagtcaga caaagccctc actgctggag
                                                                                                                                                  540
                       agaaggeeat ageageggag egggeeatga aggaageage tgagaaggaa caggagetge
                                                                                                                                                  600
                       taagagaaaa acagaaggag cagcagcaaa tgatggaggc tcaagagaga agctttcagg
                                                                                                                                                  660
                       aatacatggn ccaaatggag aagaagttgg aggangaaag ggaaaaccnt ntcagagagc
                                                                                                                                                  720
                       cttgaaaagg ttgctaaaac acaagcttga aggtncagaa gaaaatqctt aa
                                                                                                                                                  772
                                 <210> 500
                                 <2115 787
                                 <212> DNA
                                 <213> Homo Sapiens
                                 <400> 500
                      ggctgttttt agtttttct tgatttcaaa tcttcttttc aacacctccc tcttctctat
                                                                                                                                                    60
                       gegattgaac agttettget etetetett etetgteate tgtteeagae gggeeetgte
                                                                                                                                                  120
                       tteeteatet eccatgaggt etteteeata gecateatgg aactetteat ettetgagga
                                                                                                                                                  180
                       agagtetgaa tetgaactgg aagaggaget gttgetgtea gagtetgaea etteacette
                                                                                                                                                  240
                       ctcaggggct gagctctcag ctgaactgtc tttgtctgaa ctgcctgagg aggcagtttt
                                                                                                                                                  300
                       gttggcctgt ttcttcatgg ttcctttctt ctctattttt ctggcttttc ctttctt
                                                                                                                                                  360
                       attiticing tgccgaattc ggcacgagga actaticgag tittititt tittititt
                                                                                                                                                  420
                       tgagacggag tetegeteeg tegeceagge tggagtgeag eggegegate tegacteact
                                                                                                                                                  480
                       geaageteeg eeteeeggge eeaegeeatt eteeegeeee ageeteeegt gtagetggga
                                                                                                                                                  540
                       ctacaggege gtgccaccae geceggecaa tttttgcatt tttagcanag acggggttte
                                                                                                                                                  600
                      accgggttag ccaggaaggg ctcgatcccc tgacctcgng atccacccgt cttggcctcc
                                                                                                                                                  660
                       caaagtgctg ggacccacag gcaatgagtt ggatttttaa ctactgggtt taaggccagg
                                                                                                                                                  720
                       caggeceag geetgggttt tgggeetgge netggeetgn ceggeettgg gtttacette
                                                                                                                                                  780
                                                                                                                                                  787
   <210> 501
aki mba ki wilippa ay k
                                <211> 886
                                                                                                             人名英格兰人姓氏 化二十二十二十二
                              <212> DNA .....
Madage to entry
                                                                                                   A CONTRACT OF THE CONTRACT OF A CONTRACT OF 
                              <213> Homo Sapiens
                                                                                                              化感性原因为17。 8。
2000年代1月4日(1900年) - 11日 - 日本日曜野森(日本)
                                                                                                       1 N STEEL TO SEAR STOLEN SEED
                                                                                                                                                        Company of the second
the contract the way to be the best of the contract of
                       agttntnacc getegneteg egegeetgea ggtegacact agtggateca aagegggatt
                                                                                                                                                  60
                       ttaccctgga gctaaagtta gatggaaacc ccatcacaga agatgagtac ctggagaatg
                                                                                                                                                  120
                       ccttgaagct gattccaggc aagaatccca aaattcaaaa ttcaaacatg cctagagagt
                                                                                                                                                  180
                       gtatcaggca tttcttccga aaacggaagt gctttgtctt tgaccggcct acaaatgaca
                                                                                                                                                  240
                       agcaatattt aaatcatatg gacgaagtgc cagaagaaaa tctggaaagg catttcctta
                                                                                                                                                  300
                       tgcaatcaga caacttotgt tottatatot tcacccatge aaagaccaag accctgagag
                                                                                                                                                  360
                       agggaatcat tgtcactgga aagcggctgg ggactctggt ggtgacttat gtagatgcca
                                                                                                                                                  420
                       tcaacagtgg agcagtacct tgtctggaga atgcagtgac agcactggcc cagcttgaga
                                                                                                                                                  480
                       acccagegge tgtgcagagg gcagecgace actatageca gcagatggce cagcaactga
                                                                                                                                                  540
                       ggetececae agacaegete caggagetge tggaegtgea tgeageetgt gagagggaag
                                                                                                                                                  600
                       ccattgcagt cttcatggag cactccttca aggatgaaaa ccatgaattc cagaagaagc
                                                                                                                                                  660
                       ttgtggacac catagagaaa aagaagggag actttgtgct gcagaatgaa gaggcatctg
                                                                                                                                                  720
                       ccaaatattg ccaggctgac ttaagcggct ttcagagcac ctgacagaaa gcattttgag
                                                                                                                                                  780
                       aggaattttc tctggtcctg gaggacacaa tctctactta gaagaaagga aacaggntga
                                                                                                                                                  840
                       gtggggacta ttagctagtg nccagaaaag gagttaaggc aaacga
                                                                                                                                                  886
                                 <210> 502
                                 <211> 626
                                 <212> DNA
                                 <213> Homo Sapiens
```

: . :

** ひ ツノノひつかひい

<400> 502

```
gggagcaata aagcttttta atcacctggg ngcaggctgg ctgagtccna aaagacagtc
                                                                       60
agngaaggga nanagggttg ggaccatttt acaggatttg ggttggtaaa ggaaaattac
                                                                       120
ngtcaaaggg ggttgttctn tggcgggcaa aggggggngt cacaagttgc ttannggggg
                                                                       180
ancttttgag ccaggatgan ccnggaaaag gaatttcnca aggnaatggc atcagttaag
                                                                       240
gcaggaacag gccattttca cttnttttgg gantcttcac ttgcttcagg ccatntggaa
                                                                       300
nattcaggct nttaaanacn ngagccnana nattttggcc ctactccaag tagcttggaa
                                                                       360
nccccaqqta aagggacnat cattatgntg ctagccntgt caaggatntt taaaaqcctt
                                                                       420
aactggncat ttttanggct ttcaattttt tnttttagtn gattaancnc tttatttaac
                                                                       480
nqctcaaatt tcttttgaaa ntnttcctta agentttctt cttgnccttn ancttggqnt
                                                                      . 540
ttancageet tteatgenet ttgaaaaggn ttteeettte eteeteeaae ttenteteea
                                                                       600
tttggggcca tgntattncc tgggaa
                                                                       626
      <210> 503
      <211> 884
      <212> DNA
      <213> Homo Sapiens
      <400> 503
cgaggateca ggegeaggag gaeagageaa tgggtgagag aactetteae getgeagtge
                                                                        60
ccacaccagg ttatccagaa tctgaatcca tcatgatggc ccccatttgt ctagtggaaa
                                                                       120
accaqqaaga gcagctgaca gtgaattcaa aggcattaga gattcttgac aaqatttctc
                                                                       180
agecegtggt ggtggtggee attgtaggge tatacegeae aggaaaatee tateteatga
                                                                       240
atcytettye aggaaagege aatgyettee etetgygete caegytyeag tetgaaacta
                                                                       300
agggeatetg gatgtggtgt gtgeeceace tetetaagee aaaceacace etggteette
                                                                       360
tggacaccga gggcctgggc gatgtagaaa agagtaaccc taagaatgac tcgtggatct
                                                                       420
ttqccctggc tgtgcttcta agcagcagct ttgtctataa cagcgtgagc accatcaacc
                                                                       480
accaggeeet ggageagetg cactatgtga etgagetage agagetaate agggeaaaat
                                                                       540
cctgcccag acctgatgaa gctgaggact ccagcgagtt tgcgagtttc tttccagact
                                                                       600
ttatttggac tgttcgggat tttaccotgg.agctaaagtt agatggaaac cccatcacaq
                                                                       660
aagatgagta cetggagaat geettgaage ttgantneag geaagaatne eaaaanteaa
                                                                       720
aattcaaaca tgcctagaga gtgnattaag gcantttctt ccgaaaaccg gaagtgcttt
                                                                       780
tgcctttgac cgggctacaa atggacaage caatatttaa aatcattntg gacnaantgc
                                                                       840
cngaagaaaa totggaaagg catttootta tgocatcaga caac
                                                                       884
      <210> 504
       <211> 612
       <212> DNA
       <213> Homo Sapiens
       <400> 504
 gagacggagt ttcgctctgt cgcccaggct ggagtgcagt ggcgcgatct cgactcactg
                                                                        60
 caageteege eteetgggtt caegecatte teetgeetea geeteeegtg tagetgggae
                                                                       120
 tacaggcgcg tgccaccatg cccggctaat ttttgtattt ttagtagaga cggggtttca
                                                                       180
 eegtgttage caggatggte tegateteet gacetegtga tecaceegte teggeeteee
                                                                       240
 aaagtgctgg gattacaggc aatgagttga tttttaacta ctgggtttag gccaggcagg
                                                                        300
 cccaggectg gttttgggee tggegetggg etgeetgtet ttggttttae tteettggtg
                                                                       360
 ntttttctta aaacaggtac tgagtatcaa acaatataaa acaatataag aaggtctctc
                                                                        420
 tettecetea attetagetg caagttttga geactagaca geagaaataa atteetaaaa
                                                                        480
 tqttgagttg agcaaatagt tcaatgctat ccctatcaaa ctaccaatga cattntttac
                                                                        540
 nagaaattag aaactacttt aaaaatttca tatgggaacn aaaaaagagc cttacccnag
                                                                        600
 gcnaanccta aa
                                                                        612
```

_ U__, UU_U, A-4U , ,

<210> 505 <211> 2215 <212> DNA

** ** /// *****

# <213> Homo Sapiens

<400:	> 505					
ctcagatgct	cactgcagtc	caagagatct	cccatctcat	tgagccgctg	gccaatgctq	60
cccgggctga	agcctcccag	ctgggacaca	aggtgtccca	gatggcgcag	tactttgagc	120
cgctcaccct	ggctgcagtg	ggtgctgcct	ccaagaccct	gagccacccg	cagcagatgg	180
cactcctgga	ccagactaaa	acattggcag	agtctgccct	gcagttgcta	tacactocca	240
aggaggctgg	tggtaaccca	aagcaagcag	ctcacaccca	ggaagccctg	gaggaggetg	300
tgcagatgat	gaccgaggcc	gtagaggacc	tgacaacaac	cctcaacgag	gcagccagtq	360
ctgctggggt	cgtgggtggc	atggtggact	ccatcaccca	ggccatcaac	cagctagatq	., 420
aaggaccaat	gggtgaacca	gaaggttcct	tcgtggatta	ccaaacaact	atggtgcgga	480
cagccaaggc	cattgcagtg	actgttcagg	agatggttac	caagtcaaac	accageceag	540
aggagctggg	ccctcttgct	aaccagctga	ccagtgacta	tggccgtctg	gcctcggagg	600
ccaagcctgc	agcggtggct	gctgaaaatg	aagagatagg	ttcccatatc	aaacaccggg	660
tacaggagct	gggccatggc	tgtgccgctc	tggtcaccaa	ggcaggcgcc	ctgcagtgca	720
gccccagtga	tgcctacacc	aagaaggagc	tcatagagtg	tgcccggaga	gtctctgaga	780
aggteteca	cgtcctggct	gcgctccagg	ctgggaatcg	tggcacccag	gcctgcatca	840
cagcagccag	cgctgtgtct	ggtatcattg	ctgacctcga	caccaccatc	atgttcgcca	900
ctgctggcac	gctcaatcgt	gagggtactg	aaactttcgc	tgaccaccgg	gagggcatcc	960
tgaagactgc	gaaggtgctg	gtggaggaca	ccaaggtcct	ggtgcaaaac	gcagctqqqa	1020
gccaggagaa	gttggcgcag	gctgcccagt	cctccgtggc	gaccatcacc	cacctcacta	1080
atgtggtcaa	gctgggtgca	gccagcctgg	gagctgagga	ccctgagacc	caggtggtac	1140 -
taatcaacgc	agtgaaagat	gtagccaaag	ccctgggaga	cctcatcagt	gcaacgaagg	1200
ctgcagctgg	caaagttgga	gatgaccctg	ctgtgtggca	gctaaagaac	tctgccaagg	1260
tgatggtgac	caatgtgaca	tcattgctta	agacagtaaa	agccgtggaa	gatgaggcca	1320
ccaaaggcac	tcgggccctg	gaggcaacca	cagaacacat	acggcaggag	ctggcggttt	1380
tatgttaaca	agagccacct	gccaagacct	ctaccccaga	agacttcatc	cgaatgacca	1440
agggtatcac	catggcaacc	gccaaggccg	ttgctgctgg	caattcctgt	cgccaggaag	1500
atgtcattgc	cacagccaat	ctgagccgcc	gtgctattgc	agatatgctt	cgggcttgca	1560
aggaagcagc	ttaccaccca	gaagtggccc	ctgatgtgcg	gcttcgagcc	ctgcactatg.	1620
gccgggagtg	tgccaatggc	tacctggaac	tgctggacca	tgtactgctg	accctgcaga	.1680
. a agccaagccc	agaactgaag	cagcagttga	caggacattc:	aaagcgtgtg	gctggttccq.	1740
tcactgaget	catccaggct	gctgaagcca	tgaagggaac	agaatgggta	gacccagagg	1800
accccacagt	cattgctgag	aatgagctcc	tgggagctgc	agccgccatt	gaggctgcag	1860
ccaaaaagct	agagcagctg	aagccccggg	ccaaacccaa	ggaggcagat	gagtccttga	1920
actttgagga	gcagatacta	gaagctgcca	agtccattgc	agcagccacc	agtgcactgg	1980
taaaggctgc	gtcggctgcc	agagagaact	agtggcccaa	gggaaagtgg	gtgccattcc	2040
aagcaatgca	ctggacgatg	ggcagtggtc	ccangggcct	catttctgct	gcccngatgg	2100
tggcttgcgg	ccaccaacaa	nttgtgtgaa	ggcagccaat	gcaactgtcc	aagggcatgc	2160
caagccngga	anaactnatn	ttattcagcc	caacaggtaa	cttgcctttc	acaag	2215

<210> 506

<211> 742

<212> DNA

<213> Homo Sapiens

# <400> 506

ggcacgaggt	aacccaaagc	aagcagctca	cacccaggaa	gccctggagg	aggetgtgea	60
gatgatgacc	gaggccgtag	aggacctgac	aacaaccctc	aacgaggcag	ccagtgctgc	120
tggggtcgtg	ggtggcatgg	tggactccat	cacccaggcc	atcaaccagc	tagatgaagg	180
accaatgggt	gaaccagaag	gttccttcgt	ggattaccaa	acaactatgg	tgcggacagc	240
caaggccatt	gcagtgaccg	ttcaggagat	ggttaccaag	tcaaacacca	gcccagagga	300
gctgggccct	cttgctaacc	agctgaccag	tgactatggc	cgtctggcct	cggaggccaa	360
gcctgcagcg	gtggctgctg	aaaatgaaga	gataggttcc	catatcaaac	accgggtaca	420
ggagctgggc	catggctgtg	ccgctctggt	caccaaggca	ggcgccctgc	agtgcagccc	480

```
caqtgatgcc tacaccaaga aggagctcat agagtgtgcc cggagagtct ctgagaaggt
                                                                                                                                                                                                  540
                       ctcccacgtc ctggctgcgc tccaggctgg gaatcgtggc acccaggcct gcatcacagc
                                                                                                                                                                                                  600
                      agccagcgct gtgtctggta tcattgctga cctcgacacc accatcatgt tcgccacttg
                                                                                                                                                                                                  660
                       ctggcacgct caatcgtgag ggtactgaaa ctttcgctga ccaccgggan ggcatnctga
                                                                                                                                                                                                 720
                       agactgcgaa ngtgctggtg ga
                                                                                                                                                                                                  742
                                     <210> 507
                                      <211> 735
                                      <212> DNA
                                      <213> Homo Sapiens
                                      <400> 507
                       gtaggtagaa tcatttttat tggagcatga cctgtttggg gcttataact ctgcagcccc
                                                                                                                                                                                                    60
                       tatgggtagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg
                                                                                                                                                                                                   120
                       ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc
                                                                                                                                                                                                   180
                       agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca
                                                                                                                                                                                                   240
                       300
                       actgcgggac tgggcggggc caggccctgg ggtttggcag gcactttggg gagtgctggg
                                                                                                                                                                                                   360
                       gttgggcagg ttgggccccg acageccaga aggetttggt agtggcaege acagtetetg
                                                                                                                                                                                                   420
                       ggccgggtct gcattaaata gaagaggctt ctttagtgct catctcgaag ctctgaaggc
                                                                                                                                                                                                   480
                        agaaacttgt actgctgctg ccggatctgg gccagtttct tccgngcctc ttccagctct
                                                                                                                                                                                                   540
                        cgttccttcc gaagcatttc ttcctgngct gcgatgatct gggcaatgcc cgccaaccat
                                                                                                                                                                                                   600
                        cttctcttta ccaccactgg cttnattctc ctgctcttca aaggctgcaa ccttctgggc
                                                                                                                                                                                                   660
                        tgntttnacc agattatctg angetegett cactgngttg neageaacct tgaatcegtt
                                                                                                                                                                                                   720
                        tcatttgccc tccag
                                                                                                                                                                                                   735
                                       <210> 508
         <211> 666
      AND CONTROL OF SERVICE 212> DNA
                                                                                                                                                                   い 表現の発表は、AMP AMP (213> Homo Sapiens)
                                                                                                                                                   THE THE REPORT OF THE PARTY OF 
र, कर्मवाक्षावाम १००५ । १५
                                                                                                                                                             。 1. 10%/30% $P$ 新国网络各个企业。
10.2次46.2%64.2次24.444.2</br>
     किम्बन्धानिक प्रतिबद्धाः 🕆 🚾 🔭 🖟 🖟 🖟 🖟 🖟 🖟 🖟 🖟 🖟 स्थापित 
                        tatgggtagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg
                       ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc
                         agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca
                                                                                                                                                                                                    240 -
                         300
                         actgegggae tgggegggge caggecetgg ggtttggcag geaetttggg gagtgetggg
                                                                                                                                                                                                    360
                         gttgggcagg ttgggccccg acagcccaga aggctttggt agtggcacgc acagtctntg
                                                                                                                                                                                                    420
                         ggccgggtct gcattaaata gaagaggctt ctttagtgct catcingaag ctcigaaggc
                                                                                                                                                                                                   480
                         agaaacttgt actgctgctg ccggatctgg gccagttttc ttccgcgcct tttccagctc
                                                                                                                                                                                                    540
                         tegtteettt eegaageatt tetteetgng etgeeatgat tetgggeeat geeegeeaac
                                                                                                                                                                                                    600
                         catcttetet tttacceane attggettna tteteetget ettteaaaag gettgnagne
                                                                                                                                                                                                    660
                                                                                                                                                                                                    666
                         tttctg
                                        <210> 509
                                         <211> 818
                                         <212> DNA
                                         <213> Homo Sapiens
                                         <400> 509
                          ctcagatgct cactgcagtc caagagatct cccatctcat tgagccgctg gccaatgctg
                                                                                                                                                                                                       60
                          cccgggctga agcctcccag ctgggacaca aggtgtccca gatggcgcag tactttgagc
                                                                                                                                                                                                     120
                          egeteacect ggetgeagtg ggtgetgeet ceaagacect gagecacecg cageagatgg
                                                                                                                                                                                                     180
                          cactcetgga ccagactaaa acattggcag agtetgeeet gcagttgeta tacaetgeea
                                                                                                                                                                                                     240
```

71 W 22/UT#UJ 1 U 2/U (370/170/7

```
aggaggetgg tggtaaccca aagcaagcag etcacaccca ggaagccetg gaggaggetg
                                                                         300
tgcagatgat gaccgaggcc gtagaggacc tgacaacaac cctcaacgag gcagccagtg
                                                                         360
ctgctggggt cgtgggtggc atggtggact ccatcaccca ggccatcaac cagctagatg
                                                                         420
aaggaccaat gggtgaacca gaaggtteet tegtggatta ccaaacaact atggtgegga
                                                                         480
cagccaaggc cattgcagtg actgttcagg agatggttac caagtcaaac accagcccaq
                                                                         540
aggagetggg ceetettget aaccagetga ceagtgacta tggeegtetg geeteggagg
                                                                         600
ccaagcctgc agcggtggct gctgaaaatg aagagatagg ttccatatca aacaccgggt
                                                                         660
acaggagetg ggccatgget tgtgccgctc tggtcaccaa ngcangcgcc ctgantgcaa
                                                                         720
gcccagtgat gcctacccaa gaaggagctc atagagtgtg cccggagaag tttttgaaag
                                                                         780
gtcttccacg tnctggttgg cttcaagctt gggaatcg
                                                                         818
      <210> 510
      <211> 651
      <212> DNA
      <213> Homo Sapiens
      <400> 510
gtaggtagaa tcatttttat tggagcatga cctgtttggg gcttataact ctgcagcccc
                                                                          60
tatgggtagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg
                                                                         120
etgtggggae tggetggaag etgetggeag ggtggagtgg getggggeee eggeagatte
                                                                         180
agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca
                                                                         240
300
actgcgggac tgggcggggc caggccctgg ggtttggcag gcactttggg gagtgctggg
                                                                         360
gttgggcagg ttgggccccg acageccana aggetttggt agtggcacge acagtetetg
                                                                         420
ggccgggtet gcattaaata gaagaggett etttagtget catetegaag etetgaagge
                                                                         480
aanaaacttg tactgctgct geneggatet gggccanttt cttccgcgcc tettccanct
                                                                         540
ctcgttcctt ccgaagcatt tcttcctggc tgccgatgat ctggncaatg ccgccaacca
                                                                         600
tettetett caccaccact tggetcaatt etteetgget ettteaaagg e
                                                                         651
                                                and the second
     <210> 511
      <211> :712
                                                化二烷基 化邻苯甲基
      <212> DNA
                                                \mathcal{T} = \bigoplus_{i \in \mathcal{I}} \mathcal{T}_i (\nabla_i \mathcal{T}_i) = \nabla_i (\nabla_i \mathcal{T}_i) + \mathcal{T}_i (\partial_i \mathcal{T}_i)
                                                                            1.3 2000 44,000
      <213> Homo Sapiens
                                             하나 하는 그를 되었다는 것같다.
                                                                             <400>.511
gtaggtagaa tcatttttat tggagcatga cctgtttggg gcttataact ctgcagccc
                                                                          60
tatgggtagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg
                                                                         120
ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc
                                                                          180
agategaggt acageageeg ttaataatae tettggageg ttaataetet ggggagggge
                                                                          240
aggcacttgg ggggccctag ggcatgaagg cacttggggt tggggagggg acaggggatg
                                                                          300
tactgcggga ctgggcgggg ccaggccctg gggtttggca ggcactttgg ggagtgctgg
                                                                          360
ggttgggcag gttgggcccc gacagcccag aaggctttgg tagtggcacg cacagtctct
                                                                          420
gggccgggtc tgcattaaat agaagaggct tctttagtgc tcatctcgaa gctctgaagg
                                                                          480
cagaaacttg tactgctgct gccggatctg ggccagtttc ttccgcgcct cttccagctc
                                                                          540
tegtteette egaageattt etteetgtge tgeegatgat etgggeaatg eeeggeaace
                                                                          600
atcttctctt ttaccaccac tgggctcatt ctcctgctct tcaaaangct gcagcccttt
                                                                          660
tgggctgntt ttcaccagaa ttaatcttga ngcntcgctt tnacttgcgt tg
                                                                          712
      <210> 512
      <211> 850
      <212> DNA
      <213> Homo Sapiens
      <400> 512
```

1914. .....

60

aggagetgge ggttttetgt teeccagage cacetgecaa gaeetetace ccagaagaet

A しょ/しい/0/47V//

tcatccgaat gaccaagggt atcaccatgg caaccgccaa ggccgttgct gctggcaatt 120 180 cctqtcgcca ggaagatgtc attgccacag ccaatctgag ccgccgtgct attgcagata tgcttcgggc ttgcaaggaa gcagcttacc acccagaagt ggcccctgat gtgcggcttc 240 gagccctgca ctatggccgg gagtgtgcca atggctacct ggaactgctg gaccatgtac 300 tgctgaccct gcagaagcca agcccagaac tgaagcagca gttgacagga cattcaaagc 360 gtgtggctgg ttccgtcact gagctcatcc aggctgctga agccatgaag ggaacagaat 420 gggtagaccc agaggacccc acagtcattg ctgagaatga gctcctggga gctgcagccg 480 ccattgaggc tgcagccaaa aagctagagc agctgaagcc ccgggccaaa cccaaggagg 540 cagatgagtc cttgaacttt gaggagcaga tactagaagc tgccaagtcc attgcagcag 600 ccaccagtgc actggtaaag gctgcgtcgg ctgccagaga gaactagtgg cccaagggaa 660 agtgggtgcc attccaagca atgcactgga cgatgggcag tggtcccang ggcctcattt 720 ctgctgcccn gatggtggct tgcggccacc aacaanttgt gtgaaggcag ccaatgcaac 780 tgtccaaggg catgccaagc cnggaanaac tnatnttatt cagcccaaca ggtaacttgc 840 850 ctttcacaag

<210> 513

<211> 727

<212> DNA

<213> Homo Sapiens

### <400> 513

gtaggtagaa tcatttttat tggagcatga cctgtttggg gcttataact ctgcagcccc 60 tatgggtagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg 120 ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc 180 agatcgaggt acagcagcgt taataatact cttggagcgt taatactctg gggaggggca 240 300 actgcgggac tgggcggggc caggccctgg ggtttggcag gcactttggg gagtgctggg 360 gttgggcagg ttgggccccg acagcccana aggctttggt agtggcacgc acagtctctg 420 ggcccgggtc tgcattaaat agaagaggct tctttagtgc tcatctcgaa gctctgaagg 480 cagaaacttg tactgctgct gccggatctg ggccangttt cttccgngcc tcttccagct 540 600 tctcgttcct tccgaaagca tttcttnctg tgcttgcnat gaatcntggg caatgcccgn ccaacccatc ttctctttca ccaccactgg tctnatttct cctnngtcnt tcaaaaggct 660 tgcaagcett ctgggctggc ctttcaccca ganttaattt naagnetege tttacttggg 720 727 tttgcca

<210> 514

<211> 877

<212> DNA

<213> Homo Sapiens

#### <400> 514

cagcagccag cgctgtgtct ggtatcattg ctgacctcga caccaccatc atgttcgcca 60 ctgctggcac gctcaatcgt gagggtactg aaactttcgc tgaccaccgg gagggcatcc 120 tgaagactgc gaaggtgctg gtggaggaca ccaaggteet ggtgcaaaac gcagetggga 180 240 qccaggagaa gttggcgcag gctgcccagt cctccgtggc gaccatcacc cgcctcgctg atgtggtcaa gctgggtgca gccagcctgg gagctgagga ccctgagacc caggtggtac 300 taatcaacgc agtgaaagat gtagccaaag ccctgggaga cctcatcagt gcaacgaagg 360 ctgcagctgg caaagttgga gatgaccctg ctgtgtggca gctaaagaac tctgccaagg 420 tgatggtgac caatgtgaca tcattgctta agacagtaaa agccgtggaa gatgaggcca 480 ccaaaggcac tcgggccctg gaggcaacca cagaacacat acggcaggag ctggcggttt 540 tetgtteece agagecacet gecaagacet etaceceaga agaetteate egaatgacea 600 agggtateae catggeaace gecaageegt tgetgetgea attectgteg eeaggaagat 660 gtcattgcca cagccaatct gagcccgccg tgctattgca gatatgcttc ggctttgcaa 720 ggaagcaget taccacccag aagtgggeee tgatgtgegg nttcaaneet gnactatgge 780 ccggagtgtg ccaatggcta cctgggaact ggttggacca ttgtacttgg tgacccttgc 840 gttgtactgg acggctaatg gtacaggctg tcaaccaaag aggtcgaagt ccccggtctc cctcaggcca tcctcatgtc agaaggcctc gttctagatc aagggacagt ggagacgaaa atgaaccaat tcaggagcga ttcttcagac ctcacttctt gcaggctcct ggagatctga ctgttcaaga aggaaaactc tgcagaatgg actgcaaagt cagtgggtta ccaacccca

gatetaaget ggcaactaga tggaaageee gtacgeeetg acagtgetea caagaaagee

790

<210> 517 <211> 747 <212> DNA <213> Homo Sapiens

<400> 517

tggtgcctga

atagtcaaag gtatgtttct gccttttaca tantgtgaca aaggaatatg ttggtcaagg 60 caatggctgt ttcagtgttt cagctttaac aagaatgctg gattacaggt cctcactttc 120 taccaaggca gtattcagtg tcaggtgaga tgggttggcc tcaggttgga acgctgcttt 180 gatgtctagt ccctggtccg aaagtgctgc atagcgactg gctgagggcc gtacttttt 240 tggcttggtg ctctgtgact gctgatgcca ctgggtgtaa acgtccagcc tggcagtaca 300 ggacacaatc cctgcttcat tcttggctga cacagtatac cacccagcat cttcttttgt 360 ggctccctga atgagcaggc agatgtagcc gtggttgtcc tggtgcatgc tcactcggtc 420

```
agtgctgtga gtgagtgatt cattttcttt cttccaaaat atctgaggtg gtggcactcc
                                                                                                                             480
caatacacga cattccagcc gcactgggta cccatcagca actcctgtgt tttggagctt
                                                                                                                             540
ctcaataaac acagggggtt tgtgtgcttc ttttagcagca accacaagct ccaggctgaa
                                                                                                                             600
tgagttetgt cetgeteggt tggtagetat acatgtgtag atgeeggeat caegtgaegt
                                                                                                                             660
gactggctct atgatcagag agtgcacccc gttctttacg caccagcatc ttgggaqccc
                                                                                                                             720
tgtcaaggcg taccggcttt ccatcta
                                                                                                                             747
          <210> 518
          <211> 926
           <212> DNA
           <213> Homo Sapiens
         <400> 518
agaaagcaga gccttctgaa gttgacatga attctcctaa atccaaaaag gcaaaaaaga
                                                                                                                              60
aagaggagcc atctcaaaat gacatttctc ctaaaaccaa aagtttgaga aagaaaaagg
                                                                                                                             120
agcccattga aaagaaagtg gtttcttcta aaaccaaaaa agtgacaaaa aatgaggagc
                                                                                                                             180
cttctgagga agaaatagat gctcctaagc ccaagaagat gaagaaagaa aaggaaatqa
                                                                                                                             240
atggagaaac tagagagaaa agccccaaac tgaagaatgg atttcctcat cctqaaccqq
                                                                                                                             300
actgtaaccc cagtgaagct gccagtgaag aaagtaacag tgagatagag caggaaatac
                                                                                                                             360
ctgtggaaca aaaagaaggc gctttctcta attttcccat atctgaagaa actattaaac
                                                                                                                             420
ttctcaaagg ccgaggagtg accttcctat ttcctataca agcaaagaca ttccatcatg
                                                                                                                             480
tttacagcgg gaaggactta attgcacagg cacggacagg aactgggaag acattctcct
                                                                                                                             540
ttgccatccc tttgattgag aaacttcatg gggaactgca-agacaggaag-agaggccgtg ---
                                                                                                                             600
cccctcaggt actggttctt gcacctacaa gagagttggc aaatcaagta agcaaagact
                                                                                                                             660
tcagtgacat cacaaaaaa gcttgtcagt gggcttggtt tttatggtgg aacttcctat
                                                                                                                             720
ggaggtcaat ttggaccgca tggangnaat gggaattgga taatcctggg ttggaacacc
                                                                                                                             780
angtegtate aaaggacene antaenggaa tgggcaaact aagatettea eccaaacttt
                                                                                                                             840
aagccatgtt ggcccttggg atgaaagtgg ggncccagan tgtttgggaa atngggaatt
                                                                                                                             900
tgcttgatca aagtggggaa gaagaa
                                                                                                                             926 % 7
 A STATE OF THE STA
                                                                                化基础 精神经验的 人名西西西西斯
           <210> 519
                                                                                                                                  1.4
         <211>::789
                                                                                                                             <21.2>. DNA
                                                                                 LODGER II. BUILDING TO
           <213> Homo Sapiens
           <400> 519
 acatactett gageaatget aatetgegee eettaeteee ttaagteett ettggtaaat
                                                                                                                               60
 aatgttaatc ttccaatagg aagaagtgga gtacattacc atttaagcac catttatcca
                                                                                                                              120
 gectaettae aaataaaget atggageeae ettataeatg tgaaatteet taaaaceetg
                                                                                                                              180
 gctttctatt aaaatgtact tttatatata ctatctatga agaatteact aaagcatgaa
                                                                                                                              240
 tcaccttata atgagaagct aaaaatgtat caaaacgaac ataagtatag gtaatccaca
                                                                                                                              300
 tcaaacatac tacatcttcc aagtctagag catacactgg tataaactgt attacaaccc
                                                                                                                              360
 agattagttt gaaatcttgt ttcaaaacat tgctcagtat taagtctcag tagacaaata
                                                                                                                              420
 ataggaccac atgagaaact gttcggcagg tggctgagga aaccttaact tccaaaggct
                                                                                                                              480
 caaagtggtc ctccagagac tgttacactc ccttaggtat ttatttcagg gaaggacact
                                                                                                                              540
 attaagggac acttttgagt ataaagacag gtgaactcac aaagtatagg cagatcatgc
                                                                                                                              600
 ttgattttat cttctaatct acaggataat acattagaat aaaaatgtaa tgaattcata
                                                                                                                              660
 cacctttcaa aanggaaaaa ctggatgaag taacnnntaa agntataaat ggataatgga
                                                                                                                              720
 teeggatgaa aataaatttt aaaatggaaa eettggetgn gtetgaaaga agacegggae
                                                                                                                              780
 tttggcaag
                                                                                                                              789
```

<210> 520

11 0 /// 07400

are se

Committee of

<211> 827

<212> DNA

<213> Homo Sapiens

```
<400> 520
gtgatatagt gcttgtcatt ttaattgtaa catattacca aaaagcttta tatacatagc
                                                                   60
tttatactat ttacattgca gtagaggaat ggcaatgcta acaggtgatc agtgcttcca
                                                                   120
aactttttca atacctacac atgggagatc taaagagtac aatatattta agacttctaa
                                                                   180
ggaattgttt teteeteact aataaageat geeetgacta aagagaagte etgtaggeae
                                                                   240
agecttatet atteaatgae tggeacetee caggggtaet gacacacaa gtgeetteae
                                                                   300
360
eggeeteget tgacceteag gecetetetg gggetgteag teggaettet eteaggaaga
                                                                   420
ttattgactg ggacggattt cgtggtgggt tctcggagga tggtgcctga atctactggg
                                                                   480
etcegetgag caactttgac ettttgtgat etgetgecae cagetgttgg tttggaggae
                                                                   540
tetgcaagat tttetttgee gagacteagt ggggatageg etaacttetg tgeageeagg
                                                                   600
egggggetgg teegagttge catggttggt ettegeagga tatatggget aagtetttne
                                                                   660
tgtcgggatg tcagcaaacc ctttctttac aacttctgga agtccctctg gctcaaactt
                                                                   720
agtacetteg ngnettetge anggtgaata ceaeteatga etgntttett gettttttta
                                                                   78.0
gaaaagetet etggggtaae aggtgtgggn eetteaceat tettece
                                                                   827
     <210> 521
     <211> 710
     <212> DNA
     <213> Homo Sapiens
     <400> 521
gtgatatagt gettgteatt ttaattgtaa catattaeca aaaagettta tatacatage
                                                                    60
tttatactat ttacattgca gtagaggaat ggcaatgcta acaggtgatc agtgcttcca
                                                                   120
aactttttca atacctacac atgggagatc taaagagtac aatatattta agacttctaa
                                                                   180
ggaattgttt teteeteact aataaageat geeetgacta aagagaagte etgtaggeae
                                                                   240
ageettatet atteaatgae tggeacetee caggggtaet gacacacaaa gtgeetteae
                                                                   300
360
eggeeteget tgacceteag gecetetetg gggetgteag teggaettet etcaggaaga
                                                                   420
ttattgactg ggacggattt cgtggtgggt tctcggagga tggtgcctga atctactggg
                                                                   480
ctccgctgag caactttgac cttttgtgat ctgctgccac cagctgttgg tttggaggac
                                                                   540
tetgeaagat tttetttgee gagacteagt ggggatageg etaacttetg tgeageeagg
                                                                   600
egggggetgg teegaagttg ecatgggttg ntetteeagg atatatggge taagnettte
                                                                   660
ctgtcgggat gtcagcaaaa ccctttcttt acaacttctg gaaagcccct
                                                                   710
     <210> 522
     <211> 638
     <212> DNA
     <213> Homo Sapiens
     <400> 522
atagngettg teattttaat tgtaacatat taccaaaaag etttatatae atagetttat
                                                                    60
actatttaca ttgcagtaga ggaatggcaa tgctaacagg tgatcagtgc ttccaaactt
                                                                   120
tttcaatacc tacacatggg agatctaaag agtacaatat atttaagact tctaaggaat
                                                                  - 180
tgttttctcc tcactaataa agcatgccct gactaaagag aagtcctgta ggcacagcct
                                                                   240
tatetattea atgaetggea ceteceaggg gtaetgaeac acaaagngee tteaetggae
                                                                   300
cttacagttc tcactgccct tggactccag tccagctttg gggctgggga caagtcggcc
                                                                   360
tegettgace etnaggeeet etetgggget gteagtegga ettetnteag gaagattatt
                                                                   420
gactgggacg gatttcgtgg tgggttctcg gaggatggtg cctgaatcta ctgggctccg
                                                                   480
ctgagcaact ttgacctttt gngatctgct gccaccagct gttggtttgg aggactntgc
                                                                   540
aagattttct ttgccgagac ttantggggg atagcgctaa cttctggngc agccangcgg
                                                                   600
gggctggtcc naanttgcca tggntgntct tcncagga
                                                                   638
```

<210> 523 <211> 833

60

766

<212> DNA

<213> Homo Sapiens

<400> 523

cgacacttag accgagtgga ctccatcctg ctcacccaca ttggggatga caatt ggaataaaca gcatgttaca gcggaaaatt gcagagctcg aggaagaaca gtccc	agggc 120	
ggaataaaca gcatgttaca gcggaaaatt gcagagctcg aggaagaaca gtccc		
	tattt 180	
tocaccacaa atagtgactg gatgaaaaac ctcatctccc ctgacttagg agttg		
ctcaatgtac ctgaaaatct caaaaatcca gagccaaaca tcaagatgaa gagaa	igcata 240	
gaagaageet getteactet ceagtaceta aacaaattgt ceatgaaace agaac	ctctg 300	
tttagaagtg taggcaatac tattgatcct gtcattcttt tccaaaaaat gggag	gtaggt 360	
aaacttgaga tgtatgtgct taatccagtc aagagcagca aggaaatgca gtatt	ttatg 420	
cagcagtgga ctggtaccaa caaagacaag gctgaattca ttctgcctaa tggtc	aagaa 480	
gtagatetee egattteeta ettaaettea gteteatett tgattgtgtg geate	cagca 540	
aaccetgegg agaaaateat eegagteetg ttteetggga acageaceca gtaca	acatc 600	
ctggaagggt tggaaaagct caaacatcta gactttctga agcagccact ggcca	acccaa 660	-
aaggatotca otggocaggt goccactoot gtggtgaaac aaacaaaact gaaca	agaggg 720	
cttgatagec gagaaagtet gaageceage egcaaaanea etttetagea aaate	cggcg 780	
ccaaggagtc aaaagaagaa acccctgagg tcacaaaagg tggaatcacg tgg	833	

<210> 524

<211> 766

<212> DNA

<213> Homo Sapiens

<400> 524

cactteette ttetetteet tettaaette ettettgaet teetttggeg gtgtttettt cttaacctct ttcttgggtt cttttttctc ttctttcttg atctcttttt tgacttcttt 120 tttcacctct tccttttttg gtttttcctc cttcttgata ggtgttttgt cctccttttt 180 agccacttct ttctttggct tttctttctc ctctttcttg tcttcaggct ttacctttgt 为约**24:0**1 次担 出 Em 15:1 7823004224 COUNTY theettttte acceptettet cettggeage tttgggtttg acatetgtgg ettgettete ageoacctog getttcactg gagatggete ttetttgetg ggaacctect tttcagtcac tgaaggthttg%gtctctgttt ttattggctt gtcttttttc accattacct tttctttgct// ****420%%35///////////// ttcaactitg ggtggetttt ccacgtgatt cactittgtg acctcagggg tttcttcttt 元的**将48:0**次年子,4000年子中 tgactcottg egeaeggatt tgetaggaag tggttttgeg getggettea gaettteteg . 54:0 qctatcagcc ctctgtttca gttttgtttg tttcaccaca ggagtgggca cctggccagt 600 gagancettt tgggtggcca gtggctggtt cagaaagtet aaanggtttg aggettttne 660 aacctttcag gaatggtgga ccggggtgct ggtcccagga aacaggactc ggatggattt 72.0 ttctccccaa gggtttgctg gaagccccca caaatcaaag gaagga

<210> 525

<211> 847

<212> DNA

<213> Homo Sapiens

<400> 525

cagcagccgg caggatggcg accgtggtgg tggaagccac cgagccggag ccgtccggca 60 gcategecaa eeeggeggeg tecacetege etageetgte geacegette ettgacagea 120 agttetaett getggtggte gteggegaga tegtgaeega ggageaeetg eggegtgeea 180 teggeaacat egagetegga atecgateat gggacacaaa eetgattgaa tgcaaettgg 240 accaagaact caaacttttt gtatctcgac actetgcaag attetetet gaagteecag 300 gacaaaagat cetteateac egaagtgaeg ttttagaaac agtggteetg ateaaceett 360 ctgatgaagc agtcagcacc gaggtgcgct taatgatcac tgatgctgcc cgacacaagc 420 tgctcgtgct gaccgggcag tgctttgaaa ataccggaga gctcattctc cagtccggct 480 ettteteett ecagaactte atagagattt teacegatea agagateggg gagttactaa 540 geaccaccea tectgecaac aaagecaget taaccetgtt etgteetgaa gaaggggaet -600 マン シンノレタムレン

· .525. ....

A し A / し い フ ひ / 1 つ ひ / ノ

```
ggaagaacte caatettgae agacacaate tecaagaett cateaatatt aaacteaatt
                                                                                                                                               660
                 cagcttctat cttgccagaa atggaaggac tttctgagtt taccgagtat ctctcagaat
                                                                                                                                               720
                 caagtggaag teccatetee ttttgacate ttgggaacet tecacategg gtggatteet
                                                                                                                                               780
                 gaagetttte caagecetgt ggtataattt ttecaggang gaagggecaa ttttgeettg
                                                                                                                                               840
                 gttgcaa
                                                                                                                                               847
                            <210> 526
                            <211> 746
                            <212> DNA
                            <213> Homo Sapiens
                            <400> 526
                 cttgatctct tttttgactt cttttttcac ctcttcctt tttggttttt cctccttctt
                                                                                                                                                60
                 gataggtgtt ttgtcctcct ttttagccac ttctttcttt ggcttttctt tctcctctt
                                                                                                                                               1-2-0-
                 cttgtcttca ggctttacct ttgtttcctt tttcaccgtc ttctccttgg cagctttggg
                                                                                                                                               180
                 tttgacatct gtggcttgct tctcagccac ctcggctttc actggagatg gctcttcttt
                                                                                                                                               240
                 gctgggaace teetttteag teactgaagg tttggtetet gttttattgg ettgtettt
                                                                                                                                               300
                 ttcaccatta ccttttcttt gctttcaact ttgggtggct tttccacgtg attcacttt
                                                                                                                                               360
                 gtgacctcag gggtttcttc ttttgactcc ttgcgcacgg atttgctagg aagtggtttt
                                                                                                                                               420
                 geggetgget teagaettte teggetatea geeetetgtt teagttttgt ttgttteace
                                                                                                                                               480
                 acaggagtgg gcacctggcc agtgagatcc ttttgggtgg ccagtggctg cttcagaaag
                                                                                                                                               540
                tctagatgtt tgagcttttc caacccttcc aggatgttgt actgggtgct gttcccagga 600
                 aacaggacte ggatgatttt eteeegeagg gtttgetgga agecacacaa teaaagatga
                                                                                                                                              660
                 gaactgaaag taaagtangg aaatcgggaa gaactacttc ttggaccatt taggcagaaa
                                                                                                                                              720
                 ggaattcagc ccttggcttt ggtggg
                                                                                                                                               746
                            <210> 527
                           <211> 837
                           <212> DNA
                                                                         化聚基苯基甲甲二甲基苯二二烷
                           <213> Homo Sapiens A Company C
                                                                                                                        3.33.1
                                                                     一十分の養物に対していた。
TO MEDICAL SE
                           <400> 527
                                                                        与有物的在1000年,2000年,1900年
   Cactteette ttetetteet tettaaetteeettettgaet teetttggeg gtgtttettt
                                                                                                                                                60
                 cttaacctct ttcttgggtt ctttttctc ttctttcttg atctctttt tgacttcttt
                                                                                                                                               120
                 tttcacctct tccttttttg gtttttcctc cttcttgata ggtgttttgt cctcctttt
                                                                                                                                               180
                agecacttet ttetttgget tttettete etettettg tetteagget ttacetttgt
                                                                                                                                               240
                 ttcctttttc accgtcttct ccttggcagc tttgggtttg acatctgtgg cttgcttctc
                                                                                                                                              300
                agccacctcg gctttcactg gagatggctc ttctttgctg ggaacctcct tttcagtcac
                                                                                                                                              360
                 tgaaggtttg gtctctgttt ttattggctt gtcttttttc accattacct tttctttgct
                                                                                                                                               420
                 ttcaactttg ggtggctttt ccacgtgatt cacttttgtg acctcagggg tttcttctt
                                                                                                                                               480
                tgactccttg cgcacggatt tgctaggaag tggttttgcg gctggcttca gactttctcg
                                                                                                                                               540
                gctatcagcc ctctgtttca agttttgttt gnttcaccac aggagtgggc acctggccag
                                                                                                                                               600
                tgagaccttt tgggtggcca agtggctgct tcagaaagt ctagaaggtt tgagcctttt
                                                                                                                                              660
                ccaaccette caggaaggtt gggacetggg tgctggttee canggaaace aggacetegg
                                                                                                                                              720
                gatgaatttt ctcccgcaag ggtttgcctg gaatgccccn acaatccaaa gaatgaaanc
                                                                                                                                               780
                tgaaagttta antagggaaa atccgggaga aactaccttc ntggaccatt naggccc
                                                                                                                                              837
                           <210> 528
                           <211> 822
                           <212> DNA
                           <213> Homo Sapiens
                           <400> 528
                ctcgggacgt gaaattgaca gtgaaaagta tggcagatga gcaagaaatc atgtgcaaat
                                                                                                                                                60
                tggaaagcat taaagagatc aggaacaaga ccctgcagat ggagaagatc aaggctcgtt
                                                                                                                                              120
```

17 € 77/0920J

```
tgaaggetga gtttgaggea ettgagteag aggaaaggea eetgaaggaa tacaageagg
                                                                       180
agatggacct tetgetacag gagaagatgg cecatgtgga ggaacteega etgatecaeg.
                                                                       240
ctgacatcaa tgtgatggaa aacactatca aacaatctga gaatgaccta aacaagctgc
                                                                       300
tagagtctac aaggaggctg catgatgagt ataagccact gaaagaacat gtggatgccc
                                                                       360
tgcgcatgac tctgggcctg cagaggctcc ctgacttgtg tgaagaagag gagaagcttt
                                                                       420
ccttggatta ctttgagaag cagaaagcag aatggcagac agaacctcag gagcccccca
                                                                       480
tecetgagte cetggeeget geageceget geegeecaac ageteeaagt ggetaggaag
                                                                       540
caggatactc ggcagacggc caccttcagg cagcagecec cacctatgaa ggcctgcttg
                                                                       600
tcatgtcacc agcaaattca ccggaatgca cctatatgcc ctctttgcaa ggccaagagt
                                                                       660
cggtcccgga accccaaaaa gccgaacgga agcaggatga ataaaggaaa gggagagccc
                                                                       720
atgaagettt getaattata acceetteac ettgaccaga gteattgatg teetgatgtg
                                                                       780
aaacaaccct tggcccaacc ccacgaagtc tcctatttaa tg
                                                                       822
      <210> 529
      <211> 842
      <212> DNA
      <213> Homo Sapiens
      <400> 529
actttcaaag agcagaggaa cattttatat agtgaacaca tacacacttg gcaatgtaaa
                                                                        60
actacttaag gaaggaaaaa tatccccctc cccagccagg tactgagacc tggggctaaa
                                                                        120
attttttgtc agtcagcccc catccccatc ccttatcttc gagtgacctt accaggaaac
                                                                        180
ctggctttgg tggaaaggag agctgtgggg cttggggagc ctgatgcctt ttcttttggg
                                                                        240
aggaaaggca cctgcacaat ccacaggaca ggagtggcca gcagctatcc tgagctgagg
                                                                        300
ctccagaaga gttcagatcc aagagagcaa gggatgaatg gaaggaaagt cccacccacc
                                                                        360
ttcatgtgta aagtgattgg catttactca aatctaaatc tactcctctc ctccctgcaa
                                                                        420
                                                                        480
tataccattg agcatgtgcc agagtaatgg ttctgaacaa aagccaacac agatgtcagc
 ctgggggcac totcagecaa ggaageceet acageegage ceteageeet aatgaettag
                                                                        540
 gcagtaggtt)aggcaggaga tgtagaagtt ggtctggctc actgatttca ctgtggaaat
                                                                      र 600प्रथम अस्तरका हर
 cttctactag aatttgcaaa gactagatat tggggaaagg ttcattgatc ttaagaatcc
                                                                        660年3時。蘇和北京等
 caagacacaccagcctagtac ctaagaattt taagtatatg tggggagaca gaagtgggag

    720 month aspectance.

 aaagctaaag@aattaccggc catgccttcc aaatgattat gaaaanggag ggcttggtcc
                                                                       . 780 seguinations
 aagcttacctattgggccttt aaggatgaan atgangggta ggaagtangg gggatacatg
                                                                      ... 840 outstanding give
                                                                        842
          . 6
       <210> 530
       <211> 815
       <212> DNA
       <213> Homo Sapiens
       <400> 530
 ggaaaaggga gaaagatagg gagaaatatt cccaaagaga acaagaaaga gatagacaac
                                                                         60
 aaaatgatca gaaccgaccc agtgagaaag gagagaagga agagaaaagc aaagcaaagg
                                                                        120
 aagagcatat gaaagtaagg aaggaaagat atgaaaataa tgataaatac agagatagag
                                                                        180
 aaaaacgaga ggtaggtgtt cagtcttcag aaagaaatca agacagaaag gaaagcagcc
                                                                        240
 caaattctag ggcaaaggat aaatttcttg accaagaaag atccaacaaa atgagaaaca
                                                                         300
 tggcaaagga caaagaaaga aaccaagaga aaccatctaa ttotgaatca toactgggag
                                                                         360
 caaaacacag actcacagag gaagggcaag agaagggtaa agaacaagag agaccacctg
                                                                         420
 aggcagtgag caagtttgca aagcggaaca atgaagaaac tgtaatgtca gctagagaca
                                                                         480
                                                                         540
 ggtacttggc caggcagatg gcgcgggtta atgcaaagac ctatattgag aaagaagatg
 attgatggct accccaagag aaagatttaa ggaagcacag aaaactgtaa ttcctggaac
                                                                         600
  ctgctgcgta aaaccataaa ggagtgtgtt acccagtagt ttggagggca tttttaaatt
                                                                         660
```

720

780

815

tattttcaaa attttaagtt aaaagtcagt cttaagcttg gatgttttgg aatgtggatg

tttggctgaa tttatatata gggngtactc atcaataccn cattctttgt gganttcaag

aacccgttaa gagtgtgctt aattccctga ngtac

```
<211> 857
                                                            <212> DNA
                                                            <213> Homo Sapiens
                                                            <400> 531
                                        aaaatgtata agcatatcat tttattttca tttaagccaa ctatgctgta agctatttag
                                                                                                                                                                                                                                                                                  60
                                        acaagatgat tcacatttta tacttaaata caaatttcag aacataaagt atatttctg
                                                                                                                                                                                                                                                                                120
                                        tttttcaaat ccatatttta tctgaaatac atttcctgca acaaaacatt attagaagag
                                                                                                                                                                                                                                                                                180
                                         ttaaattatt tatttaaaaa aaattttta gagacagggt ctcattctgt tgcccaggtt
                                                                                                                                                                                                                                                                                240
                                        ggagtgcagt ggcatgatca tacctcactg taacatcaaa ttcctaggct caagtgatct
                                                                                                                                                                                                                                                                                300
                                        tettgeetea geetettgaa cagetgggae tacaggeatg gactaceatg ctaggetttt
                                                                                                                                                                                                                                                                                360
                                        tgttttttaa atagagacaa ggtcttatta tcctgcctag gctggtcttg aatgcctagc
                                                                                                                                                                                                                                                                                420
                                        ctcaatatcc ttctgccttg gcctcccaaa atgttggtat tacaggcacg agctaccgta
                                                                                                                                                                                                                                                                                480
                                        tetggecaaa attattitti aatggttgta gtggageaaa tttteeteat tatgtaeeta
                                                                                                                                                                                                                                                                                540
                                        cagggaatta gcacactctt aacggttctt gaatcaacaa agaatgtggt attgatgagt
                                                                                                                                                                                                                                                                                600
                                        acacactata tataaattca gccaaacatc cacatccaaa catccaagct gtaagactga
                                                                                                                                                                                                                                                                                660
                                        cttttaactt aaaattttga aaataaattt aaaaagccct tcaaactact ggtaacacac
                                                                                                                                                                                                                                                                                720
                                        ttenttatgg tttaccccac aggntncagg aattccagtt tctgggcttn ccttaaacct
                                                                                                                                                                                                                                                                                780
                                        ttccttgggg tagcccatca atcatctctt tctcaaaaaa aggcntttgc attaaccgg
                                                                                                                                                                                                                                                                                840
                                        gccatttggc ctggcca
                                                                                                                                                                                                                                                                                857
                                                           <210> 532
                                                            <211> 736
                                                            <212> DNA
                                                            <213> Homo Sapiens
                                                            <400> .532
Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro
                                                                                                                                                                                                                                                                             1 60 M 455 H 8
 State and a specific and state and s
                                                                                                                                                                                                                                                                               120 ..
                                   tgaaaaggag gcctctgaga atgaaacaga catggaagac cccagagaaa tccagactga
                                                                                                                                                                                                                                                                                180
  www. www. ttottggcgt aaacggggag agagcgagga accgtcatct cctcagtccc tgtgtcatct :
                                                                                                                                                                                                                                                                                240 m. A. Pertusia
stroky. A consideration and a second 
                                                                                                                                                                                                                                                                               cctggagtgg gaccacacag gcgacgtggg gggctcctcc tctcacgaag aggacgagga
                                                                                                                                                                                                                                                                                360
                                     gggcccatac tacagegeae tgteagatgt agaaateeet gaaaateetg aggeatatet
                                                                                                                                                                                                                                                                                420
                                         taaaatgacc acaaaaactt tgaaagcgtc ttctggtaaa tccatttcgg atggccactc
                                                                                                                                                                                                                                                                                480
                                        gtggcatgtt cccgacagcc cttcctgtcc cgagcatcac tacaagcaaa tggaaggtga
                                                                                                                                                                                                                                                                                540
                                        caggaatgtt ccacctgttc cccctgcgtc cagcacccct tataaaccac cctatggaaa
                                                                                                                                                                                                                                                                                600
                                        gctactatta cctccaggca cggatggtgg caaagaaagc ccgcgagtcc tgaatggcaa
                                                                                                                                                                                                                                                                                660
                                        cccacagcag gaagacnggg gactggcccg gtattacaga gcaacagtca gggtgccttc
                                                                                                                                                                                                                                                                                720
                                        gacagatggg agatga
                                                                                                                                                                                                                                                                                736
                                                            <210> 533
                                                            <211> 678
                                                            <212> DNA
                                                             <213> Homo Sapiens
                                                             <400> 533
                                         ctggctaatt ttgtttttta atganaaaca tntgagttgt ncatatcaca aacagnttca
                                                                                                                                                                                                                                                                                   60
                                        agtttntgnn ccaaccccc gccccaccc ccgccgnggc caaacagtta aaacccaaag
                                                                                                                                                                                                                                                                                120
                                        caaagcatca ntttggatgt gaaaaagtnt taaaaaatta acttacaaaa ncatccctat
                                                                                                                                                                                                                                                                                180
                                         caagtcggta gttnggcatt tactttacat tagtcaaaag ctccagctaa aatctaattt
                                                                                                                                                                                                                                                                                240
                                         ttttaaaaaa aaatcgaagt ttacattatt catacanatt gggcattgtt aaaaaatatg
                                                                                                                                                                                                                                                                                300
                                         cncaaataac cacatccatg caatacaatt tntttaaaaa tttaaagcan tntaaaagag
                                                                                                                                                                                                                                                                                 360
                                         cagagetagg tnetgaacan aacattttgg ngtataaceg geagnteaaa attgeeaget
                                                                                                                                                                                                                                                                                 420
```

TT V JAIUTAUJ

<210> 531

マテレ ファバレマルリン A CALOGOGIATOLO

```
gattggagta aaactgattn taagcgtatt aaatatgatn gatngtttcc atcagctaag
                                                                                                                               480
ggngcctatg agtttctgaa ccatttntag ggnggaatgt cctcgcttgc ttcnataata
                                                                                                                               540
tatgtgatgg acaccactgc tcattgncca tacctacatt ataataatgc tgttttacaa
                                                                                                                               600
acaaaccaga attcacaaag ngcttggctn ttcaggaaac tgacatttcc agagatccct
                                                                                                                               660
aaactaaatc aactagtt
                                                                                                                               678
           <210> 534
           <211> 789
           <212> DNA
           <213> Homo Sapiens
           <400> 534
ggtggatgag ggtgctgggg acagtgctgc ggtggccagt ggtggtgccc agaccttggc
                                                                                                                                60
cettgccggg tecectgeec categgggea ecceaagget ggacacagtg agaacggggt
                                                                                                                               120
tgaggaggac acagaaggtc gaacggggcc caaagaaggt acccctggga gcccatcgga
                                                                                                                               180
gaccccagge eccageccag caggacetge aggggacgag ecagecgaga geccategga
                                                                                                                               240
gaccccagge eccegeccag caggacetge aggggaegag ecageegaga geccategga
                                                                                                                               300
gaccccagge eccegecegg caggacetge aggggacgag ecageegaga geccategga
                                                                                                                               360
gaccccagge eccageeegg caggacetae aagggatgag ecageegaga geecategga
                                                                                                                               420
gaccccagge cecegecegg caggacetge aggggacgag ccagecgaga geceategga
                                                                                                                               480
gaccccagge eccegeegg caggacetge aggggaegag ecageegaga geccategga
                                                                                                                               540
gaccccaggc cccagcccgg caggacctac aagggatgag ccagccaagg cgggggaggc
                                                                                                                               600
agcagagttg caggacgcag aggtggagtc ttctgccaag ttctgggaag ccnttaagga
                                                                                                                               660
aaggagttge cegteggegt ettggteete tggteettgt tgaagggett gggnetteeg
                                                                                                                               720
gacttnttgn ggcttccctt aaggtttggt ttgtgaccct gaccatggan ccacaatgct
                                                                                                                               780
gggcttctt
                                                                                                                               789
           <210> 535
           <211> 802
                                              The Company of the Section of the Company of the Co
           <212> DNA
                                                                                               and the second second
           <213> Homo Sapiens
                                                   1/3 991, 0400991 . NO
                                                                                                        : 1
                                             <400> 535
                                         caaagtcaaa tgaatttatt cagaaaaggc cttgcttggt atcagactaa gaaaagcagc
                                                                                                                                 60
 cctgcccgcc gcccccact ccanaagggt caatttacaa agacaggggc gcaggggana
                                                                                                                                120
 getgggtggg gaagacacag ccaggccagg aggettetge aggeettggg ettecetgag
                                                                                                                                180
 ggcctcgcgg cttctggtgg ctgctatagt ggccccacag gaggccagca ctgtgggtca
                                                                                                                                240
 tgggtcacgg gtcacgaagc anagcctgag gggagcccgc agcagctccg gaggccccag
                                                                                                                                300
 eccetgeage agggacagga ggaccaagae geegaeggge acteetttee ttaaggette
                                                                                                                                360
 ccanacttgg cagaagactc cacctctgcg teetgcaact etgetgcetc eccegeettg
                                                                                                                                420
 getggeteat cecttgtagg teetgeeggg etggggeetg gggteteega tgggeteteg
                                                                                                                                480
 getggetegt eccetgeagg teetgeeggg egggggeetg gggtnteega tgggeteteg
                                                                                                                                540
 getggetegt eccetgeagg teetgeeggg egggggeetg gggteteega tgggeteteg
                                                                                                                                600
 gctggctcaa tcccttgtag gtccttgccg ggctggggcc tgggggtctt ccgaatgggc
                                                                                                                                660
 tteteggetg gettegtece ttgcaagtee ttgcegggee gggggeeetg ggggtetten
                                                                                                                                720
 aatgggcttt ttgggttggg tteggcccc tggaaggtcc ctggctgggc cggggggccc
                                                                                                                                780
  tgggggtctt ccnaaagggg ct
                                                                                                                                802
            <210> 536
             <211> 901
            <212> DNA
             <213> Homo Sapiens
```

<400> 536

aaaagaatgg aaaagaaaat acagagagaa cgagaaatgg aaaaggggga gtttgatgat

```
aaagaagcat ttgtgacatc tgcatataag aaaaaactgc aagagagagc tgaagaagaa
                                                                       120
gaaagagaaa agagggetge tgeactggaa geatgtttgg atgtaaccaa geagaaagat
                                                                       180
ctcagtggat tttataggca cctattaaat caagcagttg gtgaagagga agtacctaaa
                                                                       240
tgcagctttc gtgaagccag atctggtata aaggaagaaa aatcaagggg cttctccaat
                                                                       300
gaagtaagtt caaaaaacag aataccacaa gagaaatgca ttcttcaaac tgatgtgaaa
                                                                       360
gtagaggaaa acccagatgc agacagtgac ttcgatgcta agagcagtgc ggatgatgaa
                                                                       420
atagaagaaa ctagagtgaa ctgcagaagg gaaaaggtca tagagacccc tgagaatgac
                                                                       480
ttcaagcacc acaggagtca aaaccactct cggtcaccta gtgaagaaag agggcacagt
                                                                       540
accaggcacc acacgaaagg atcacgaacg tcgagaggac atgagaaaag ggaagatcag
                                                                       600
caccaacaga agcaatccag agaccaaaga gaaccattac actgacccgt gantaccgga
                                                                       660
aagaaaggga ttctcatagc acagagaggc cagtcattag agattcccat tggaagagcc
                                                                       720
ttgaacagga agataaaccc anggccaagg gnccaaggag gaaagaagtg acngaagtnt
                                                                       780
ggnaaaaggg agaaaggatt gggagaaata nttcccaagg aggaccagga aggagattgc
                                                                       840
ccaccaaatn gatccgaaac cgacccaatg agaaaggaga gaaggaagag aaaagccaag
                                                                       900
C
                                                                       901
```

<210> 537 <211> 761 <212> DNA

<213> Homo Sapiens

#### <400> 537

atgtataagc atatcattt attttcattt aagccaacta tgctgtaagc tatttagaca 60 agatgattca cattttatac ttaaatacaa atttcagaac ataaagtata ttttctgttt 120 ttcaaatcca tattttatct gaaatacatt tcctgcaaca aaacattatt agaagagtta 180 aattatttat ttaaaaaaaa ttttttagag acagggtctc attctgttgc ccaggttgga 240 gtgcagtggc atgatcatac ctcactgtaa catcaaattc ctaggctcaa gtgatcttct 300 tgcctcagcc tnttgaacag ctgggactac aggcatggac taccatgcta ggctttttgt 360 . . . . tttttaaata gagacaaggt cttattatcc tgcctaggct ggtcttgaat gcctagcctc :420 прачитасу ког а aatatcette tgeettggee teecaaaatg ttggtattac aggeacgage taccggatet 3.480 negationstage ggccaaaatt atttttaat ggttgtagtg gagcaaattt tcctcattat gtacctacag ា:540១៦៦ នៃប្រជាជនជា ggaattaagcocactcttaac ggttcttgaa tcnncaaaga atgtggnatt gatgagttcn 4.600 your cartettet cactatatat@aaattcagcc@caaacatcca cattcnaaca tnccagctgt aagactgact ್ 660 ಸಿಡಿದ ಕ್ಷಮೂಕ್ ದಿವಿ tttaacttaa aattttgaaa natnaaattt aaaaatgccc tncaaaacta ctgggaacac 720 cctcccttta tgggtttanc ccagcagggt tccaaggaat t 761 Ungabit

<210> 538 <211> 869 <212> DNA

<213> Homo Sapiens

#### <400> 538

cgggaacaag atggcagccc ccatacctca agggttctct tgtttatcga ggtttttggg 60 ctggtggttt cggcagccag ttctggtgac tcagtccgca gctatagttc cagtaagaac 120 taaaaaaacgt ttcacacctc ctatttatca acctaaattt aaaacagaaa aggagtttat 180 gcaacatgcc cggaaagcag gattggttat tcctccagaa aaatcggacc gttccataca 240 tetggeetgt acagetggta tatttgatge etatgtteet cetgagggtg atgeacgeat 300 atcatctctt tcaaaggagg gactgataga gagaactgaa cgaatgaaga agactatggc 360 atcacaagtg tcaatccgga ggataaaaga ctatgatgcc aactttaaaa taaaggactt 420 ccctgaaaaa gctaaggata tctttattga agctcacctt tgtctaaata actcagacca 480 tgaccgactt cataccttgg taactgaaca ctgttttcca gacatgactt gggacatcaa 540 atataagacc gtccgctgga gctttgtgga atctttagag ccctctcatg ttgttcaagt 600 tegetgttca agtatgatga accagggcaa egtgtacegn ccagatcace gtacegcatg 660 cacaccegge agactetgge catetatgae egggtttgge eeggttgatg tatgggeeag 720 gnagatgtcc ccaggatgtc ctggaagtat gttggantcg aaaagcagnt tgccaaancc 780

	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	840 869
	<210> 539	
	<211> 760	
	<212> DNA	
	<213> Homo Sapiens	
	<400> 539	
	aagggataaa ttatttcttt ggatttatat ttttccataa aatgcaaatg ctgattcatc	60
	agtgagtcag tatatgaaaa agggcctctt aaatgtctta taaacactaa ttattcttcc	120
	ccagtettea ttteettaaa gteacatege teacaagtag geteatette caettetgee	180
	atotgaaggo tggtocatgo coagootgaa coaggggaaa tgtgcagaac toaccaaaat	240
	ttttccaaca ccctgacaac atttcatttc aaactctgat ccctgccctg	300
	gaggatgetg etggttgtet etcacagtee etgetgtggg aaaaactgat atccaatgtt	360
	ctctgaaaca tactgtcttt catctagact cagaagctag acataaaatt taaaaaagaa	420
	gagtgtccat ggccatgtta tacctgccac ctgctagggc ccagtcatca gtcatggttg	480
	ctgatgatga gactgctgaa aagacctgag caggatggga gagaacaaag gtagttcttt	540
	ttatagcatg aggggaatgg gagacttcaa agcttncagg cagcctcatc accccaggct	600
	teacectaga aagteatttt tgneateagg getaacetga ngettetggg geeteteett	660
	gggcctcttc ataatcttct tctgggnttc agcttgaagg gccaggggat tcatnacccg	720
	getttaaagg gatggggeet gettaagggg ggtgeeceat	760
	<210> 540	
	<211> 874	
	<212> DNA	
	<213> Homo Sapiens	
	<400> 540200 0,000 (200) (100)	
	ggagcactgc ctcaaacatg ggctgaaagt taagaagagt tttattggcc aaaataaatc	60
	attetttggt cetttggage tggtggagaa aetttgteea gaageateag atatagegae	120
	tagtgtcaga aatottccagcaattaaagac agctgtgggacagaggccgag cgtggcttta	180
	tettgeacte atgeaaaaga aactggeaga ttatetgaaa gtgettatag acaataaaca	240
	totottaago gagttotatg agootgaggo tttaatgatg gaggaagaag ggatggtgat	300
	tgttggtctg ctggtgggac tcaatgttct cgatgccaat ctctgcttga aaggagaaga	360
	cttggattct caggttggag taatagattt ttccctctac cttaaggatg tgcaggatct	420
	tgatggtggc aaggagcatg aaagaattac tgatgtcctt gatcaaaaaa attatgtgga	480
	agaacttaac cggcacttga gctgcacagt tggggatctt caaaccaaga tagatggctt	540
	ggaaaagact aactcaaagc ttcaagaaga gctttcagct gcaacagacc gaatttgctc	600
	acttcaagaa gaacagcagc agttaaagag aacnaaatga attaattcga gaaagaagtn	660
	aaaagagtgt agaagatacn aaacaggatc caaagttgag ctggagactt acagccaact	720
	tcgcaaggtc tggatgaaat gtcnntgatg tgtggaagca cttaaagagg agaagaaagt	780
	ccggttggaa ctggaaaaaa gaactggagn tccaaatggg aatgaaaacc caaatnggaa	840
•	atgccatgaa gttcctggna aaggcccccc ccaa	874
	<210> 541	
	<211> 729	
	<212> DNA	
	<213> Homo Sapiens	
	<400> 541	
	gaaaaataaa tgattttatt gcagggccaa tgataggtag tcacaagggc atgaaatggc	60
	agatetettg tetgaageag agaaggeaca etggeagaet eeatgtgtgt caaaegetgt	120
	gcatgaatca ggtttttaga aggaaggtag gagaggaaaa ctactcacta gcagaactga	180
	actgctgtaa aataggttaa attctttgaa aagtgaaaaa tgatagtagc aaaatcatga	240

A - 11 - 10 7 01 1 7 0 1 7

```
agttgtatct gaaccagagc cgtgatgtaa ccaagtaaga tggaagtttc catccagagg
                                                                         300
agttaattcc gaacaagtca cagaaaggtg agagctgccg gttccggcac gctgtcttct
                                                                         360
ggagtgccag tgaccgggca agaaatttga ttctttcctt tgattctctt gggaaagaac
                                                                         420
acattteeca ageceetgga gaeceacagg gtttggeact gteegtgagg etgtgeteet
                                                                         480
gaggacggac gttcaggagg ccgtggagga gcagcgctgc aggagcaggg tgtggcagct
                                                                         540
gtcgcacact cgcaccggct tggggtagga gggcagggcc cagctcgttg ctgggagcag
                                                                         600
gtgtttgcan aagatgtggc ccacagttcc ggcagtnggt gctttctccg gggaaaatgg-
                                                                         660
agaactteet tinteacaen tggetaceag tggggtegnt tteggeatet titeaageea
                                                                         720
ggccgtggg
                                                                         729
      <210> 542
      <211> 830
      <212> DNA
      <213> Homo Sapiens
      <400> 542
gggacagcgg ggacggcacg gcgcgcgcag cttctaagtg ccagatgatg gaggagcgtg
                                                                          60
ccaacctgat gcacatgatg aaactcagca tcaaggtgtt gctccagtcg gctctgagcc
                                                                         120
tgggccgcag cctggatgcg gaccatgccc ccttgcagca gttctttgta gtgatggagc
                                                                         180
actgcctcaa acatgggctg aaagttaaga agagttttat tggccaaaat aaatcattct
                                                                         240
ttggtccttt ggagctggtg gagaaacttt gtccagaagc atcagatata gcgactagtg
                                                                         300
tcagaaatct tccagaatta aagacagctg tgggaagagg ccgagcgtgg-ctttatcttg-
                                                                        --360
cactcatgca aaagaaactg gcagattatc tgaaagtgct tatagacaat aaacatctct
                                                                         420
taagcgagtt ctatgagcct gaggctttaa tgatggagga agaagggatg gtgattgttg
                                                                         480
gtctgctggt gggactcaat gttctcgatg ccaatctctg cttgaaagga gaagacttgg
                                                                         540
atteteaggt tggagtaata gattttteee tetacettaa ggatgtgeag gatettgatg
                                                                         600
gtggcaagga gcatgaaaga attactgatg tccttgatca aaaaaattat gtggaagaac
                                                                         660
ttaaccegge acttgagetg caccagttgg ggatetttca acceaagata gatggetttg
                                                                         720
gaaaagacta actcaaagct tcagaagagc nttnagctgc accagaccga attttgctcc
                                                                         1780 13 (Kgd) (Aq.
tttcaagaaa nacagcaccn gttaagaaaa ccaaatggaa ttaatttcag
                                                                        ೆ 830 - ಹಡುದಿಹಲಾಗ್ರಥಃ
       CONTROL OF THE PROPERTY OF THE
                                                                              对人的 经基本的现在分词
  The second se
                                                                          The state of the state of the state of
     13, 8279.5 AVER 30.
      <212> DNA . . . .
      <213> Homo Sapiens
                                                                                <400> 543
gaaaaataaa tgattttatt gcagggccaa tgataggtag tcacaagggc atgaaatggc
                                                                          60
agatetettg tetgaageag agaaggeaea etggeagaet ceatgtgtgt caaaegetgt
                                                                         120
gcatgaatca ggtttttaga aggaaggtag gagaggaaaa ctactcacta gcagaactga
                                                                         180
actgctgtaa aataggttaa attctttgaa aagtgaaaaa tgatagtagc aaaatcatga
                                                                         240
agttgtatct gaaccagagc cgtgatgtaa ccaagtaaga tggaagtttc catccagagg
                                                                         300
agttaattcc gaacaagtca cagaaaggtg anagctgccg gttccggcac gctgtcttct
                                                                         360
ggagtgccag tgaccgggca agaaatttga ttctttcctt tgattctctt gggaaagaac
                                                                         420
acatttecca ageccetgga gacceaeagg gtttggeaet gteegtgagg etgtgeteet
                                                                         480
gaggacggac gttcaggagg cccgtggagg agcagcgctg caggagcagg gtgtggcagc
                                                                         540
tgtcgcacac tcgcaccggc ttggggtagg anggcagggc tagctcgttg ctggancang
                                                                         600
tgttgcaaaa naatgtggcc acagntnegg cagtgggtgc tttntceggg aaaagggaga
                                                                         660
actteettnt cacacttgge tacagnggng gnegettteg neatetttt aneceaggeg
                                                                         720
nnggcccttt caa
                                                                         733
      <210> 544
      <211> 852
      <212> DNA
      <213> Homo Sapiens
```

1 0 1/0 0 / 0 / 1 4 0 / 2

# <400> 544

	gtggagaaat	gcgctatcag	ctgaataaaa	ccaacatgga	gaaggatgag	gcagaaaagg	60	
	agcacagaga	gttcagagca	aaaactaaca	gggatcttga	aattaaagat	caggaaatag	120	
	agaaattgag	aatagaactg	gatgaaagca	aacaacactt	ggaacaggag	cagcagaagg	180	
	cagccctggc	cagagaggag	tgcctgagac	taacagaact	gctgggcgaa	tctgagcacc	240	
	aactgcacct	caccagatct	gaaatagctc	aactcagtca	agaaaaaagg	tatacatatg	300	
	ataaattggg	aaagttacag	agaagaaatg	aagaattgga	ggaacagtgt	gtccagcatg	360	
		tgagacgatg					420	
	cagcccagca	gctggtgcag	ctcctcagca	agcagaacca	gcttctcctg	gagaggcaga	480	
	gcctgtcgga	agaggtggac	cggctgcgga	cccagttacc	cagcatgcca	caatctgatt	540	
	gctgacctgg	atggaacaga	gtgaaataaa	tgaattacaa	agagatattt	acattcatct	600	
	ggtttagact	taatatgcca	caacgcacca	cgaccttccc	agggtgacac	cgcctcagcc	660	
	tgcagtgggg	ctggtcctca	tcaacgcggg	cgctgtcccc	gcacgcagtc	gggctggagc	720	
	tggagtctga	ctctagctga	gcagactcct	ggtgtatgtt	ttcagaaatg	gcttgaagtt	780	
_	atgtgtttaa	atctgctcat	tcgtatgcta	ggttatacat	atgattttca	ataaatgaac	840	•
	tttttaaaga	aa					852	

<210> 545

<211> 414

<212> PRT

<213> Homo Sapiens

<400> 545

Leu 1	Leu	Asp	Ala	Ser 5	Glu	Lys	Leu		Leu 10	Thr	Tyr	Glu	Glu	Lys 15	Cys
Glu	Ile	Glu	Glu 20	Ser	Gln	Leu	Lys		Leu		Asn	Asp	Leu 30	Ala	Glu
Tyr	Gln		Thr									Lys 45	His	Lys	Glu
Phe	Leu	Leu	Ala	Ala	Asn	Thr	Cys.	Asn:	Arg	Val	Gly.	Gly	Leu	Cys	Leu
	50					55					60 :			•	
Lys	Cys	Ala	Gln	His	Glu	Ala	Val	Leu.	Ser	Gln	Thr	His	Thr	Asn	Val
65						144 110									80
His	Met	Gln	Thr	Ile	Glu	Arg	Leu	Val	Lys	Glu	Arg	Asp	Asp	Leu	Met
				85		7.								95	
Ser	Ala	Leu	Val	Ser	Val	Arg	Ser	Ser	Leu	Ala	Asp	Thr	Gln	Gln	Arg
			100					105					110		
Glu	Ala		Ala	Tyr	Glu	Gln		Lys	Gln	Val	Leu	Gln	Ile	Ser	Glu
		115					120					125			
Glu		Asn	Phe	Glu	Lys		Lys	Ala	Leu	Ile		Cys	Asp	Gln	Leu
	130	_				135					140				
	Lys	Glu	Leu	Glu		Gln	Ala	Glu	Arg		Glu	Lys	Glu	Leu	Ala
145				_	150	_	_			155					160
Ser	Gln	Gln	Glu		Arg	Ala	Ile	Glu				Met	Lys	-	Glu
		_		165		_		_	170					175	
Ile	Thr	Lys	Glu	Arg	Glu	Tyr	Met		Ser	Lys	Met	Leu		Leu	Ser
~ 7	_	~-3	180	~-3	_		_ 4	185					190		
GIn	Asn		Ala	GIn	Leu	Glu			Val	Glu	Lys		Thr	Lys	Glu
_	_ 7 .	195		_,	_	~-3	200				_	205			
ьys			Ala	TTE	Asn		Leu	GLu	Glu	Ile		Ser	Gln	Leu	Ala
^	210			<b>.</b>	•••	215	_				220				
		GIU	Met	Asp			Lys	Val	Cys		Glu	Met	Arg	Tyr	Gln
225		T	<b>տ</b> ե	3	230		<b>.</b>	_		235		_			240
ьeu	Asn	гуѕ	Thr		Met	GIU	гЛs	Asp			GLu	Lys	Glu		Arg
				245					250					255	

```
ママ い フプ/ひちんひご
Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu
                                265
            260
Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu
                            280
Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu
                        295
Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Ser
305
                    310
                                         315
                                                             320
Glu Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu
                325
                                     330
Gly Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln
                                 345
His Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp
                            360
                                                 365
Lys His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys
                        375
Gln Asn Gln Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp
                    390
                                         395
                                                             400
Arg Leu Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys
                                     410
      <210> 546
      <211> 2885
      <212> DNA
      <213> Homo Sapiens
      <400> 546
ggaatteete ttgtegaagt caaaggagee cacaccagge ggeeteaace atteeeteee
acagcacccc aaatgctggg gagcccacca tgcttctttg gaccagagtt cccctcccca
                                                                   . 120
gageggeeee eetgggaege eteceteeta caaactgeet/ttgeetggge/cetacgaeag/200/180
togagacgae ttececetee geaaaacage etetgaacee aacttgaaag tgegtteaag 240
agctaaaacag aaggtggctg agcggagaag cagtcccctcactgcgtcgca aggatgggacas assas
tgttattage acctttaaga agagagetgt tgagateaca ggtgeeggge etggggegte ver 360
gteegtgtgt aacagegeae eeggeteegg eeceagetet eecaacaget eecacageae
categotgag aatggettta etggeteagt ecceaacate eccaetgaga tgeteectea
                                                                       480
gcaccgagcc ctccctctgg acagctcccc caaccagttc agcctctaca cgtctccttc
                                                                       540
tetgeceaac atetecetag ggetgeagge caeggteact gteaceaact caeaceteac
                                                                       600
tgcctccccg aagctgtcga cacagcagga ggccgagagg caggccctcc agtccctgcg
                                                                       660
```

geagggtgge acgetgaceg geaagtteat gageacatee tetatteetg getgeetget 720 gggcgtggca ctggagggcg acgggagccc ccacgggcat gcctccctgc tgcagcatgt 780 gctgttgctg gagcaggccc ggcagcagag caccctcatt gctgtgccac tccacgggca 840 gtccccacta gtgacggtg aacgtgtggc caccagcatg cggacggtag gcaagctccc 900 geggeategg eccetgagee geacteagte etcacegetg ecgeagagte eccaggeeet 960 gcagcagctg gtcatgcaac aacagcacca gcagttcctg gagaagcaga agcagcagca 1020 gctacagctg ggcaagatcc tcaccaagac aggggagctg cccaggcagc ccaccaccca 1080 ccctgaggag acagaggagg agctgacgga gcagcaggag gtcttgctgg gggagggagc 1140 cctgaccatg ccccgggagg gctccacaga gagtgagagc acacaggaag acctggagga 1200 ggaggacgag gaagaggatg gggaggagga ggaggattgc atccaggtta aggacgagga 1260 gggcgagagt ggtgctgagg aggggcccga cttggaggag cctggtgctg gatacaaaaa 1320 actgitetea gatgeecaae egetgeaace titgeaggtg taccaagege eecteageet 1380 ggccactgtg ccccaccaag ccctgggccg tacccaatcc tcccctgctg cccctggggg 1440 catgaagaac cccccagacc aacccgtcaa gcacctcttc accacaagtg tggtctacga 1500 cacgttcatg ctaaagcacc agtgcatgtg cgggaacaca cacgtgcacc ctgagcatge 1560 tggccggatc cagagcatct ggtcccggct gcaggagaca ggcctgctta gcaagtgcga 1620 geggateega ggtegeaaag ceaegetaga tgagateeag acagtgeaet etgaatacea 1680

caccetgete tatgggacca gteceeteaa eeggeagaag etagacagca agaagttget 1740 cqqtcccatc agccagaaga tgtatgctgt gctgccttgt gggggcatcg gggtggacag 1800 tgacaccgtg tggaatgaga tgcactcctc cagtgctgtg cgcatggcag tgggctgcct 1860 gctggagctg gccttcaagg tggctgcagg agagctcaag aatggatttg ccatcatccg 1920 gcccccagga caccacgccg aggaatccac agccatggga ttctgcttct tcaactctgt 1980 agccatcacc gcaaaactcc tacagcagaa gttgaacgtg ggcaaggtcc tcatcgtgga 2040 ctgggacatt caccatggca atggcaccca gcaggcgttc tacaatgacc cctctgtgct 2100 ctacatetet etgeateget atgacaaegg gaacttettt ecaggetetg gggeteetga 2160 agaggttggt ggaggaccag gcgtggggta caatgtgaac gtggcatgga caggaggtgt 2220 ggaccccccc attggagacg tggagtacct tacagccttc aggacagtgg tgatgcccat 2280 tgcccacgag ttctcacctg atgtggtcct agtctccgcc gggtttgatg ctgttgaagg 2340 acatetgtet cetetgggtg getactetgt cacegecaga tgttttggee acttgaccag 2400 gcagctgatg accetggcag ggggccgggt ggtgctggcc ctggagggag gccatgactt 2460 gaccgccatc tgtgatgcct ctgaagcttg tgtctcggct ctgctcagtg taaagctgca 2520 gcccttggat gaggcagtct tgcagcaaaa gcccaacatc aacgcagtgg ccacgctaga <del>-2</del>-5-8-0gaaagtcatc gagatccaga gcaaacactg gagctgtgtg cagaagttcg ccgctggtct 2640 gggccggtcc ctgcgagggg cccaagcagg tgagaccgaa gaagccgaaa tgtgaacgcc 2700 atggccttgc tgttggtggg ggccgaacag gcccaagctg cggcagcccg ggaacacagc 2760 eccaggeegg cagaggagee catggageag gageetgeee tgtgaegeee eggeeeceat 2820 ccctttgggc ttcaccattg tgattttgtt tattttttct attaaaaaca aaaagttaaa 2880 2885 aattt

<210> 547 <211> 897 <212> PRT <213> Homo Sapiens

<400> 547

Glu Phe Leu Leu Ser Lys Ser Lys Glu Pro Thr Pro Gly Gly Leu Asn 10. grammatic 1. 15 His Ser Leu Pro Gln His Pro Lys Cys Trp Gly Ala His His Ala Ser 1501 561 74 20 Leu Asp Gln Ser Ser Pro Pro Gln Ser Gly Pro Pro Gly Thr Pro Pro 40 45 Ser Tyr Lys Leu Pro Leu Pro Gly Pro Tyr Asp Ser Arg Asp Asp Phe 60 55 Pro Leu Arg Lys Thr Ala Ser Glu Pro Asn Leu Lys Val Arg Ser Arg 75 70 Leu Lys Gln Lys Val Ala Glu Arg Arg Ser Ser Pro Leu Leu Arg Arg 90 85 Lys Asp Gly Thr Val Ile Ser Thr Phe Lys Lys Arg Ala Val Glu Ile 105 Thr Gly Ala Gly Pro Gly Ala Ser Ser Val Cys Asn Ser Ala Pro Gly 125 120 Ser Gly Pro Ser Ser Pro Asn Ser Ser His Ser Thr Ile Ala Glu Asn 140 135 Gly Phe Thr Gly Ser Val Pro Asn Ile Pro Thr Glu Met Leu Pro Gln 155 150 His Arg Ala Leu Pro Leu Asp Ser Ser Pro Asn Gln Phe Ser Leu Tyr 170 Thr Ser Pro Ser Leu Pro Asn Ile Ser Leu Gly Leu Gln Ala Thr Val 185 180 Thr Val Thr Asn Ser His Leu Thr Ala Ser Pro Lys Leu Ser Thr Gln Gln Glu Ala Glu Arg Gln Ala Leu Gln Ser Leu Arg Gln Gly Gly Thr

A ! しいノい! まマリ , ノ

```
Y1U 7//UTAU3
```

```
Phe Asn Ser Val Ala Ile Thr Ala Lys Leu Leu Gln Gln Lys Leu Asn
                                660
                                                                        665
         Val Gly Lys Val Leu Ile Val Asp Trp Asp Ile His His Gly Asn Gly
                                                                680
         Thr Gln Gln Ala Phe Tyr Asn Asp Pro Ser Val Leu Tyr Ile Ser Leu
                                                       695
         His Arg Tyr Asp Asn Gly Asn Phe Pro Gly Ser Gly Ala Pro Glu
                                                710
                                                                                   715
         Glu Val Gly Gly Pro Gly Val Gly Tyr Asn Val Asn Val Ala Trp
                                                                                730
         Thr Gly Gly Val Asp Pro Pro Ile Gly Asp Val Glu Tyr Leu Thr Ala
                                                                        745
         Phe Arg Thr Val Val Met Pro Ile Ala His Glu Phe Ser Pro Asp Val
                                                                760
                                                                                                       765
         Val Leu Val Ser Ala Gly Phe Asp Ala Val Glu Gly His Leu Ser Pro
                                                        775
         Leu Gly Gly Tyr Ser Val Thr Ala Arg Cys Phe Gly His Leu Thr Arg
                                                790
                                                                                        795
         Gln Leu Met Thr Leu Ala Gly Gly Arg Val Val Leu Ala Leu Glu Gly
                                         805
                                                                                810
         Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser Glu Ala Cys Val Ser
                                                                        825
         Ala Leu Leu Ser Val Lys Leu Gln Pro Leu Asp Glu Ala Val Leu Gln
                                                                840
          Gln Lys Pro Asn Ile Asn Ala Val Ala Thr Leu Glu Lys Val Ile Glu
                                                        855
          Ile Gln Ser Lys His Trp Ser Cys Val Gln Lys Phe Ala Ala Gly Leu
          865
                                                870
                                                                                        875
     Str Gly Arge Ser Leu Arg Gly Ala Gln Ala Gly Glu Thr Glu Glu Ala Glu Control of the West Control
the transfer production is 885 to the contract 890.
                                                                                                                       895 . Partition of the stable of the contraction of 
   Met
                                                                                                                                    \label{eq:continuous_problem} \mathcal{L}_{\mathcal{A}} = -\frac{2\pi^2}{\kappa} \log \frac{2\pi}{\kappa} \mathbb{E}^{\frac{1}{2}} \mathcal{L}_{\mathcal{A}} + \frac{1}{\kappa} \mathcal{L}_{\mathcal{A}} = 0
   the same of the
                                                                                                                                     Soft page 25 Capital Color
    i menimpa ali di ulu
                                                                                                                                 en Davida e la composição de la composição
        . <210> 548
           <211> 1298
                      <212> DNA
                      <213> Homo Sapiens
                      <400> 548
          ggotgotgaa atgactgoga acoggottgo agagagoott otggotttqa qocancaqqa
                                                                                                                                                     60
          agaactageg gatttgeeaa aagactaeet ettgagtgag agtgaagatg agggggaeaa
                                                                                                                                                    120
          tgatggagag agaaagcatc naaagcttct ggaagcaatc agttcccttg atggaaagaa
                                                                                                                                                    180
          taggcggaaa ttggctgana ggtctgaggc tagtctgaag gtgtcagagt tcaatgtcag
                                                                                                                                                    240
          ttctqaagga tcaggagaaa agctggtcct tgcagatctg cttgagcctg ttaaaacttc
                                                                                                                                                    300.
          atottetttg gecaetgtga aaaagcaaet gagtagagte anateaaaga anacagtgga
                                                                                                                                                    360
          gttacctctg aacaaagaag agattgaacg gatccacaga gaataqcatt caataaaacq
                                                                                                                                                    420
           cacaagteet etecaaatgg gaccetgteg teetgaagaa eeggeaggea gageagetgg
                                                                                                                                                    480
           tttttcccct ggagaaagag gagccagcca ttgctcccat tgaacatgtg ctcagtggct
                                                                                                                                                    540
           ggaaggcaag aactcccctg gagcaggaaa ttttcaacct cctccataag aacaaqcaqc
                                                                                                                                                    600
           cagtgacaga ccctttactg acccctgtgg aaaaggcctc tctccqaqcc atqaqcctaq
                                                                                                                                                    660
           aagaggcaaa gatgcgacga gcagagcttc agagggctcg ggctctgcag tcctactatq
                                                                                                                                                    720
           angccaaggc tcgaagagag aagaaaatcn aaagttaaaa gtatcacaaa gtcgtgaaga
                                                                                                                                                    780
           aaggaaaggc caagaaagcc ctaaaagagt ttgagcagct gcggaaggtt aatccagctg
                                                                                                                                                    840
           900
```

960

```
1020
agaggaagaa taagaaggaa agaagaaaga aaaaagtnaa agaagaagaa agaaggaaga
                                                                1080
aggaaagaag aggaagaact nagaagaaga aagaggagga aagaagaaag aagaataagg
                                                                1140
aacnagaaag aaggagaaga aagaataaga agaggaagaa gaaaaagaag aaaagaagaa
                                                                1200
1260
agaaagtata agaaggaaga agaagaaaga aggaaaaa
                                                                1298
     <210> 549
     <211> 236
     <212> PRT
     <213> Homo Sapiens
     <400> 549
Ala Ala Glu Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu
Ser Gln Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu
          20
                             25
Ser Glu Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Lys Leu Leu
Glu Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Arg
                      55
Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly...
65 70 75
Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
              85
                                 90
Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Ser Lys
           100
Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile His Arg
                         120
                                    125<sub>000</sub> ·
Glu Ile Ala Phe Asn Lys Thr His Lys Ser Ser Pro Asn Gly Thr Leu
                      135
                                        140, 111
Ser Ser Val Leu Lys Asn Arg Gln Ala Glu Gln Leu Val Phe Pro Leu
                  150
                                    155
Glu Lys Glu Glu Pro Ala Ile Ala Pro Ile Glu His Val Leu Ser Gly
                                 170
Trp Lys Ala Arg Thr Pro Leu Glu Gln Glu Ile Phe Asn Leu Leu His
                             185
Lys Asn Lys Gln Pro Val Thr Asp Pro Leu Leu Thr Pro Val Glu Lys
       195
                          200
Ala Ser Leu Arg Ala Met Ser Leu Glu Glu Ala Lys Met Arg Arg Ala
                      215
Glu Leu Gln Arg Ala Arg Ala Leu Gln Ser Tyr Tyr
225
                  230
     <210> 550
     <211> 2236
     <212> DNA
     <213> Homo Sapiens
     <400> 550
cctggcccgg tcgcggtcgc ggctctttcc agctcctggc agccgggcac ccgaaggaac
                                                                  60
gggtcgtgca acgacgcagc tggacctggc ccagccatgg accgaaaagt ggcccgagaa
                                                                 120
ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat
                                                                 180
gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg
                                                                 240
gtcatcaatg aacccagccg tetgeetetg tttgatgeca tteggeeget gateccaetg
```

**** ///07#4

ましょうしじといえすい! **すす い フンパレマル**リン aagcaccagg tggaatatga tcagctgacc ccccggcgct ccaggaagct gaaggaggtg 360 cgtctggacc gtctgcaccc cgaaggcctc ggcctgagtg tgcgtggtgg cctggagttt 420 ggctgtgggc tcttcatctc ccacctcatc aaaggcggtc aggcagacag cgtcgggctc 480 caggtagggg acgagatcgt ccggatcaat ggatattcca tctcctcctg tacccatgag 540 gaggtcatca acctcattcg aaccaagaaa actgtgtcca tcaaagtgag acacatcggc 600 ctgatccccg tgaaaagctc tcctgatgag cccctcactt ggcagtatgt ggatcagttt 660 gtgtcggaat ctgggggcgt gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag 720 gagaagaagg tottcatcag cotggtaggc tocogaggco ttggctgcag catttccagc 780 ggccccatcc agaagcctgg catctttatc agccatgtga aacctggctc cctgtctgct 840 gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac 900 ctggatcaca aggaggctgt aaatgtgctg aaaaatagcc gcagcctgac catctccatt 960 gtagctgcag ctggccggga gctgttcatg acagaccggg agcggctggc agaggcgcgg 1020 cagegtgage tgeageggea ggagettete atgeagaage ggetggegat ggagteeaae 1080 aagatcctcc aggagcagca ggagatggag cggcaaagga gaaaagaaat tgcccagaag 1140 gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag 1200aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact cttgcctaaa 1260

accatcactg ctgaggtaca cccagtaccc cttcgcaagc caaagtatga tcagggagtg 1320 gaacctgagc tcgagcccgc agatgacctg gatggaggca cggaggagca gggagagcag 1380 gatttccgga aatatgagga aggetttgac cectacteta tgttcacece agagcagate 1440 atggggaagg atgtecgget cetacgeate aagaaggagg gateettaga eetggeeetg 1500 gaaggeggtg tggaeteece cattgggaag gtggtegttt etgetgtgta tgagegggga 1560 gctgctgagc ggcatggtgg cattgtgaaa ggggacgaga tcatggcaat caacggcaag 1620 attgtgacag actacaccct ggctgaggct gacgctgccc tgcagaaggc ctggaatcag ---1680 ggcggggact ggatcgacct tgtggttgcc gtctgccccc caaaggagta tgacgatgag 1740 ctgaccttct tgctgaagtc caaaagggga aaccaaattc acgcgttagg aaacagtgag 1800 ctccggcccc acctcgtgaa cacaaagcct cggaccagcc ttgagagagg ccacatgaca 1860

cacaccagat ggcatcettg ggacctgaat ctateaccca ggaateteaa acteeetttg 1920
geeetgaace agggeeagat aaggaacage tegggeeact titttgaagg ceaatgtgga 1980
aggaaagggag cageeageeg tittgggagaa gateteaagg atceagacte teatteetit 2040
cetetggeee agtgaatttg gteteteea getittgggg acteetteet tgaaccetaa 2100

taagacccca ctggagtoto totototoca tocototoct otgcoototg ototaattgo 2160 to taagacccoa gagattaatt 2220

ttccagctta aaaaaa

<210> 551

<211> 652 <212> PRT

<213> Homo Sapiens

<400> 551

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu 10 Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met 20 . 25 Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu 40 Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro 55 Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg 70 Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu 90 Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu 105 110 Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu

120 125 Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser 135 Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val 150 Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser 185 Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys 200 205 Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys 215 Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His-230 - 235 Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp 245 250 Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys 265 Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile 280 Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu-295 300 Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln 310 315 Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Glu 325 330 Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu 355 (2) The Community 360 (1) and 365 Lys Phe Lys Lys Gln: Trp Glu Glu Asp Trp Gly Ser: Lys Glu Gln Leu 3.80 Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg 390 395 Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp 405 410 Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Asp Phe Arg Lys 420 425 Tyr Glu Glu Gly Phe Asp Pro Tyr Ser Met Phe Thr Pro Glu Gln Ile 440 445 Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys Glu Gly Ser Leu 455 460 Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val 470 475 Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile 485 490 Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp 500 505 Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu 535 540 Tyr Asp Asp Glu Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln

オイレ ンノノリマルリン

```
Ile His Ala Leu Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr
                                    565
                                                                      570
         Lys Pro Arg Thr Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp
                                                               585
         His Pro Trp Asp Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu
                                                        600
         Ala Leu Asn Gln Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu
                                                  615
                                                                                   620
         Gly Gln Cys Gly Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu
         625
                                           630
         Lys Asp Pro Asp Ser His Ser Phe Pro Leu Ala Gln
                    <210> 552
                    <211> 2162
                    <212> DNA
                    <213> Homo Sapiens
                    <400> 552
         cetggeeegg tegeggtege ggetetttee ageteetgge ageegggeae eegaaggaae
                                                                                                                                60
         gggtcgtgca acgacgcagc tggacctggc ccagccatgg accgaaaagt ggcccgagaa
                                                                                                                               120
         ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat
                                                                                                                               180
         gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg
                                                                                                                               240
         gtcatcaatg aacccagccg tetgeetetg tttgatgcca tteggeeget gateccaetg
                                                                                                                               300
         aagcaccagg tggaatatga tcagctgacc ccccggcgct ccaggaagct gaaggaggtg
                                                                                                                               360
         cgtctggacc gtctgcaccc cgaaggcctc ggcctgagtg tgcgtggtgg cctggagttt
                                                                                                                               420
         ggctgtgggc tettcatete ceaecteate aaaggeggte aggcagaeag egtegggete
                                                                                                                               480
        caggtagggg acgagategt eeggateaat ggatatteea teteeteetg tacceatgag : 540 %
         gaggteatea aceteatteg aaceaagaaa actgtgteea teaaagtgag acacategge aga600 caa
and the control of th
   t tigtgteggaat etgggggegt gegaggeage etgggetece etggaaateg ggaaaacaag ing 720 ti
    ு gagaagaaggetetteateageeetggtagge teeegaggee ttggetgeag cattteeage அத்தாருஇறு அது
         ggddddatdd agaagddtgg catotttato agddatgtga aaddtggdto ddtgtdtgdt .......840......
         gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac
                                                                                                                             900
         ctggatcaca aggaggetgt aaatgtgetg aaaaatagee geageetgae cateteeatt
                                                                                                                            ~:960
         gtagctgcag ctggccggga gctgttcatg acagaccggg agcggctggc agaggcgcgg
                                                                                                                             1020
         cagcgtgagc tgcagcggca ggagcttctc atgcagaagc ggctggcgat ggagtccaac
                                                                                                                             1080
         aagatcctcc aggagcagca ggagatggag cggcaaagga gaaaagaaat tgcccagaag
                                                                                                                             1140
         gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag
                                                                                                                             1200
          aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact cttgcctaaa
                                                                                                                             1260
          accatcactg ctgaggtaca cccagtaccc cttcgcaagc caaagtgatt tccggaaata
                                                                                                                             1320
          tgaggaaggc tttgacccct actctatgtt caccccagag cagatcatgg ggaaggatgt
                                                                                                                             1380
          ccggctccta cgcatcaaga aggagggatc cttagacctg gccctggaag gcggtgtgga
                                                                                                                             1440
          ctcccccatt gggaaggtgg tcgtttctgc tgtgtatgag cggggagctg ctgagcggca
                                                                                                                             1500
          tggtggcatt gtgaaagggg acgagatcat ggcaatcaac ggcaagattg tgacagacta
                                                                                                                              1560
          caccetgget gaggetgaeg etgecetgea gaaggeetgg aatcagggeg gggaetggat
                                                                                                                              1620
          egacettgtg gttgeegtet geececcaaa ggagtatgae gatgagetga eettettget
                                                                                                                              1680
          gaagtccaaa aggggaaacc aaattcacgc gttaggaaac agtgagctcc ggcccacct
                                                                                                                              1740
          cgtgaacaca aagcetegga ecageettga gagaggeeae atgacacaca ecagatggea
                                                                                                                              1800
          teettgggae etgaatetat cacceaggaa tetcaaacte eetttggeee tgaaceaggg
                                                                                                                              1860
          ccagataagg aacagctcgg gccacttttt tgaaggccaa tgtggaggaa agggagcagc
                                                                                                                              1920
          cageogtttg ggagaagate teaaggatee agaeteteat teettteete tggeceagtg
                                                                                                                              1980
          aatttggtet eteccagett tgggggaete etteettgaa eectaataag acceeactgg
                                                                                                                              2040
          agtetetete tetecatece tetectetge cetetgetet aattgetgee aggattgtea
```

** W ///UTMUJ

ctccaaacct tactctgagc tcattaataa aataaacaga tttattttcc agcttaaaaa

2100

aa

```
<210> 553
       <211> 403
       <212> PRT
       <213> Homo Sapiens
       <400> 553
 Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
 Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
                                25
 Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
              4.0---
                                              4.5
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
                        55
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
  105 ----- 110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
                            120
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
                        135
                                           140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
                    150
                                       155
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro: Val Lys Ser Ser Pro
Although the first the second
                165
                                170 Joseph May 60 - 152 175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
            180
                            . 185 - anada Language 190:
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
                           200
                                           205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
                       215
                                           220
Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
                   230
                                       235
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
               245
                                   250
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
            260
                               265
Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
                           280
Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
                       295
Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
                   310
Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Glu
                                   330
Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
```

340 345 350 Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu

Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu

370 375 380

Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg
385 390 395 400

Lys Pro Lys

<210> 554 <211> 1789 <212> DNA <213> Homo Sapiens

<400> 554

cttctggatg catccgagaa gctaaaactt acttatgagg aaaagtgtga aattgaggaa 60 tcccaattga agtttttgag gaacgactta gctgaatatc agagaacttg tgaagatctt 120 aaagagcaac taaagcataa agaatttett etggetgeta ataettgtaa eegtgttggt 180 gqtctttqtt tgaaatgtgc tcagcatgaa gctgttcttt cccaaaccca tactaatgtt 240 catatgcaga ccatcgaaag actggttaaa gaaagagatg acttgatgtc tgcactagtt 300 tccgtaagga gcagcttggc agatacgcag caaagagaag caagtgctta tgaacaggtg 360 aaacaaqttt tqcaaatatc tgaggaagcc aattttgaaa aaaccaagqc tttaatccaq 420 tgtgaccagt tgaggaagga gctggagagg caggcggagc gacttgaaaa agaacttgca 480 teteageaag agaaaaggge cattgagaaa gacatgatga aaaaggaaat aacgaaagaa 540 agggagtaca tgggatcaaa gatgttgatc ttgtctcaga atattgccca actggaggcc 600 caggtggaaa aggttacaaa ggaaaagatt tcagctatta atcaactgga ggaaattcaa 660 agccagctgg cttctcggga aatggatgtc acaaaggtgt gtggagaaat gcgctatcag 720 ctgaataaaa ccaacatgga gaaggatgag gcagaaaagg agcacagaga gttcagagca 780 aaaactaaca gggatettga aattaaagat caggaaatag agaaattgag aatagaactg 840 gatgaaagca aacaacactt ggaacaggag cagcagaagg cagccctggc cagagaggag 900 tqcctqaqac taacaqaact gctgggcgaa tctgagcacc aactgcacct caccaqacaq 960 gaaaaagata gcattcagca gagctttagc aaggaagcaa aggcccaagc ccttcaggcc 1020 caqcaaaqaq aqcaqqaqct gacacagaag atacagcaaa tggaagccca gcatgacaaa 1080 actgaaaatg aacagtattt gttgctgacc tcccagaata catttttgac aaagttaaag 1140 gaagaatgot gtacattago::caagaaactg::gaacaaatot otcaaaaaac cagatotgaa 1200 atageteaae teagteaaga aaaaaggtat acatatgata aattgggaaa gttacagaga 1260 aqaaatqaaq aattqqagga acagtgtgtc cagcatggga gagtacatga gacgatgaaq 1320 caaaqqctaa qqcaqctgga taagcacagc caggccacag cccagcagct ggtgcagctc 1380 ctcagcaagc agaaccagct tctcctggag aggcagagcc tgtcggaaga ggtggaccgg 1440 ctgcqqaccc aqttacccag catgccacaa tctgattgct gacctggatg gaacagagtq 1500 aaataaatga attacaaaga gatatttaca ttcatctggt ttagacttaa tatgccacaa 1560 cqcaccacqa ccttcccaqq gtgacaccgc ctcagcctgc agtggggctg gtcctcatca 1620 acgogggcgc tgtccccgca cgcagtcggg ctggagctgg agtctgactc tagctgagca 1680 gactcctggt gtatgttttc agaaatggct tgaagttatg tgtttaaatc tgctcattcg 1740 tatgctaggt tatacatatg attttcaata aatgaacttt ttaaagaaa 1789

. . 0.

<210> 555 <211> 493 <212> PRT <213> Homo Sapiens

<400> 555

 Leu Leu Asp Ala Ser Glu Lys Leu Lys Leu Thr Tyr Glu Glu Lys Cys

 1
 5
 10
 15

 Glu Ile Glu Glu Ser Gln Leu Lys Phe Leu Arg Asn Asp Leu Ala Glu
 20
 25
 30

 Tyr Gln Arg Thr Cys Glu Asp Leu Lys Glu Gln Leu Lys His Lys Glu
 35
 40
 45

```
Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu
                                                          55
              Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val
              His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met
                                            85
              Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg
                                                                         105
              Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu
                                                                  120
              Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu
                                                          135
              Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala
                           150-155-
              Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu
                                                                                170
              Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser
                                . 180
                                                                        185
              Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu
                                                                 200
              Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala
             210 -----215
             Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln
                                                  230
                                                                                       235
             Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg
                                          245
                                                                               250
             Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu
                 260
                                                                        265
                                                                                                             270
      ong The Gluckys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glub of the Charles
285
                                                                                                                they are to the local original and
  s Cott Glasglu Gla Gla Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leus caltagitate de s
2000年1月1日 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 - 120295 
                                                                                              300
                                                                                                             The control of the state of the control
ThroGlucLeu Leu Gly-Glu Ser Glu His Gln Leu His Leu Thr Arg Gln - Madalogy to b
             305
                                                  310
                                                                                       315
                                                                                                                            320 . 444 .
      Glu Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln
                                          325
                                                                               330
             Ala Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln
                                                                        345
             Gln Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu
                                                                360
             Leu Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys
                                                         375
                                                                                              380
             Thr Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu
                                                 390
                                                                                       395
             Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly
                                          405
                                                                               410
             Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His
                                                                        425
             Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp Lys
                                                                440
             His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln
                                                        455
             Asn Gln Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp Arg
                                                 470
                                                                                       475
             Leu Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys
```

130

485 490

<210> 556 · <211> 1306 <212> DNA <213> Homo Sapiens <400> 556 aaaaatagcc gcagcctgac catctccatt gtagctgcag ctggccggga gctgttcatg 60 acagaccggg agcggctggc agaggcgcgg cagcgtgagc tgcagcggca ggagcttctc 120 atgcagaagc ggctggcgat ggagtccaac aagatcctcc aggagcagca ggagatggag 180 cggcaaagga gaaaagaaat tgcccagaag gcagcagagg aaaatgagag ataccggaag 240 gagatggaac agattgtaga ggaggaagag aagtttaaga agcaatggga agaagactgg 300 ggeteaaagg_aacagetact_cttgcctaaa_accatcactg_ctgaggtaca_cccaqtaccc-360 cttcgcaagc caaagtatga tcagggagtg gaacctgagc tcgagcccgc agatgacctg 420 gatggaggca cggaggagca gggagagcag gatttccgga aatatgagga aggctttqac 480 ccctactcta tgttcacccc agagcagatc atggggaagg atgtccggct cctacgcatc 540 aagaaggagg gatcettaga cetggeeetg gaaggeggtg tggaeteeec cattgggaag 600 gtggtcgttt ctgctgtgta tgagcgggga gctgctgagc ggcatggtgg cattgtgaaa 660 ggggacgaga tcatggcaat caacggcaag attgtgacag actacaccct ggctgaggct 720 gacgotgoco tgcagaaggo otggaatcag ggcggggact ggatcgacot tgtggttqco - gtctgccccc caaaggagta -tgacgatgag -ctgaccttct tgetgaagtc- caaaagggga ... 840 aaccaaattc acgcgttagg aaacagtgag ctccggcccc acctcgtgaa cacaaagcct 900 cggaccagcc ttgagagagg ccacatgaca cacaccagat ggcatccttg ggacctgaat 960 ctatcaccca ggaatctcaa actccctttg gccctgaacc agggccagat aaggaacagc 1020 tegggeeact tttttgaagg ceaatgtgga ggaaagggag cageeageeg tttgggagaa 1080 gateteaagg atcoagacte teatteettt cetetggeee agtgaatttg gteteteeea 1140 gctttggggg actccttcct tgaaccctaa taagacccca ctggagtctc tctctcca 1200 teceteteet etgecetetg etetaattge tgecaggatt gteactecaa acettaetet 1260 gageteatta ataaaataaa eagatttatt tteeagetta aaaaaa TO SHOUTH HER BUILDING ****** <210> 557 The principle that the second of the - 100 <211> 328 Company of Berlin Section 1995 <212> PRT <213> Homo Sapiens <400> 557 Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu Met Glu Arg Gln 10 Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu Asn Glu Arg Tyr 25 Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu Lys Phe Lys Lys 40 Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu Leu Pro Lys 55 Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg Lys Pro Lys Tyr .70 75 Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp Asp Leu Asp Gly 85 90 Gly Thr Glu Glu Gln Gly Glu Gln Asp Phe Arg Lys Tyr Glu Glu Gly

140

Phe Asp Pro Tyr Ser Met Phe Thr Pro Glu Gln Ile Met Gly Lys Asp
115
120
125
Val Arg Leu Leu Arg Ile Lys Lys Glu Gly Ser Leu Asp Leu Ala Leu

```
Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val Ser Ala Val
                    150
                                        155
Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile Val Lys Gly Asp
                165
                                    170
Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp Tyr Thr Leu Ala
                                185
Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln Gly Gly Asp Trp
                           .200
Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu Tyr Asp Asp Glu
                       215
Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln Ile His Ala Leu
                                       235
Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr Lys Pro Arg Thr
               245
                                   250
Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp His Pro Trp Asp
           260
                               265
Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu Ala Leu Asn Gln
                           280
Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu Gly Gln Cys Gly
                       295
Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu Lys Asp Pro Asp
                   310
                                       315
Ser His Ser Phe Pro Leu Ala Gln
```

<210> 558 <211> 2289 <212> DNA

5. 64章 CV Grace等44 CV

<400>:558

```
cctggccegg tegeggtege ggetetttee agetectgge ageegggeae ccgaaggaae
                                                                      in 60 rugs was supor
gggtcgtgca acgacgcagc tggacctggc ccagccatgg accgaaaagt ggcccgagaa
                                                                      120schlaggerige
ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat
                                                                       180
gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg
                                                                       240
gtcatcaatg aacccagccg tetgeetetg tttgatgcca tteggeeget gateccaetg
                                                                       300
aagcaccagg tggaatatga tcagctgacc ccccggcgct ccaggaagct gaaggaggtg
                                                                       360
cgtctggacc gtctgcaccc cgaaggcctc ggcctgagtg tgcgtggtgg cctggagttt
                                                                       420
ggctgtgggc tettcatete ecaceteate aaaggeggte aggeagaeag egtegggete
                                                                       480
caggtagggg acgagatcgt ccggatcaat ggatattcca tctcctcctg tacccatgag
                                                                       540
gaggtcatca acctcattcg aaccaagaaa actgtgtcca tcaaagtgag acacatcggc
                                                                       600
ctgatccccg tgaaaagctc tcctgatgag cccctcactt ggcagtatgt ggatcagttt
                                                                       660
gtgtcggaat ctgggggcgt gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag
                                                                       720
gagaagaagg tetteateag eetggtagge teeegaggee ttggetgeag cattteeage
                                                                       780
ggccccatcc agaagcctgg catctttatc agccatgtga aacctggctc cctgtctgct
                                                                       840
gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac
                                                                       900
ctggatcaca aggaggetgt aaatgtgetg aaaaatagee geageetgae cateteeatt
                                                                       960
gtagetgeag etggeeggga getgtteatg acagaceggg ageggetgge agaggegegg
                                                                      1020
cagegtgage tgeageggea ggagettete atgeagaage ggetggegat ggagtecaae
                                                                      1080
aagateetee aggageagea ggagatggag eggeaaagga gaaaagaaat tgeecagaag
                                                                      1140
gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag
                                                                      1200
aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact cttgcctaaa
                                                                      1260
accatcactg ctgaggtaca cccagtaccc cttcgcaagc caaagtatga tcagggagtg
                                                                      1320
gaacctgagc tegagecege agatgacetg gatggaggca eggaggagca gggagagcag
                                                                      1380
ccacaggaga tgttgaagag gatggtggtt tatcaagaca gcattcaaga caagatttcc
                                                                      1440
```

**VV し フフ/レサルレン** 

ggaaatatga ggaaggettt gaccectact ctatgttcac cccagagcag atcatgggga 1500 aggatgtccg gctcctacgc atcaagaagg agggatcctt agacctggcc ctggaaggcg 1560 gtgtggactc ccccattggg aaggtggtcg tttctgctgt gtatgagcgg ggagctgctg 1620 ageggeatgg tggeattgtg aaaggggaeg agateatgge aateaaegge aagattgtga 1680 cagactacac cetggetgag getgaegetg ceetgeagaa ggeetggaat cagggegggg 1740 actggatcga ccttgtggtt gccgtctgcc ccccaaagga gtatgacgat gagctgacct 1800 tettgetgaa gteeaaaagg ggaaaccaaa tteacgegtt aggaaacagt gageteegge 1860 cccacctcgt gaacacaaag cctcggacca gccttgagag aggccacatg acacacaca 1920 gatggcatcc ttgggacctg aatctatcac ccaggaatct caaactccct ttggccctga 1980 accagggcca gataaggaac agctcgggcc acttttttga aggccaatgt ggaggaaagg 2040 gagcagccag ccgtttggga gaagatetea aggatecaga eteteattee ttteetetgg-2100 eccagtgaat ttggtetete ecagetttgg gggaeteett cettgaacee taataagace 2160 ecactggagt ctetetetet ccatecetet ectetgeeet etgetetaat tgetgeeagg 2220 attgtcactc caaaccttac tctgagctca ttaataaaat aaacagattt attttccagc 2280 ttaaaaaaa 2289

A - A1 - DD - D1 A 7 - 1 - 1

<210> 559

<211> 481

<212> PRT

<213> Homo Sapiens

<400> 559

5-28.58 (1997)

1 15

th 1, 1949-19

\$5,14,300,401.50

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu 5 10 Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met 20 25 Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu 45 Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro 55 Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg Salar Sa 70 Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu 85 Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu 105 Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu 120 Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser 135 140 Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val 150 155 Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro 165 . 170 Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys 200 205 Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys 215 Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His 230 235 Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp 250 . . Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys

```
ママ ひ アフバリマムシン
```

17.00

```
265
                                                    270
 Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
                            280
 Val Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
                        295
Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
             Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Glu
                325
                                    330
Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
                                345
Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu
Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu-
                        375
                                            380
Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg
                    390
                                        395
Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp
                405
                                    410
Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Pro Gln Glu Met
            420
                                425
Leu Lys Arg Met Val Val Tyr Gln Asp Ser Ile Gln Asp Lys Ile Ser
                            440
Gly Asn Met Arg Lys Ala Leu Thr Pro Thr Leu Cys Ser Pro Gln Ser
                        455
Arg Ser Trp Gly Arg Met Ser Gly Ser Tyr Ala Ser Arg Arg Asp
                                        475
Pro
                                        t raignitis to a sea consideration
    <210> 560
                                     or all figuressa may
 <211> 2409
                                        on Marriag with the sole
 <212> DNA
                                       Seldwig than beginning
      <213> Homo Sapiens
      <400> 560
cctggcccgg tcgcggtcgc ggctctttcc agctcctggc agccgggcac ccgaaggaac
gggtcgtgca acgacgcagc tggacctggc ccagccatgg accgaaaagt ggcccgagaa
                                                                      60
ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat
                                                                      120
gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg
                                                                      180
gtcatcaatg aacccagccg tetgeetetg tttgatgcca tteggeeget gateccaetg
                                                                      240
aagcaccagg tggaatatga tcagctgacc ccccggcgct ccaggaagct gaaggaggtg
                                                                      300
cgtctggacc gtctgcaccc cgaaggcctc ggcctgagtg tgcgtggtgg cctggagttt
                                                                      360
ggctgtgggc tetteatete ceaceteate aaaggeggte aggeagaeag egtegggete
                                                                      420
caggtagggg acgagatcgt ccggatcaat ggatattcca tctcctcctg tacccatgag
                                                                     480
gaggtcatca acctcattcg aaccaagaaa actgtgtcca tcaaagtgag acacatcggc
                                                                      540
ctgatececg tgaaaagete teetgatgag ecceteaett ggeagtatgt ggateagttt
                                                                      600
gtgtcggaat ctgggggcgt gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag
                                                                      660
gagaagaagg tetteateag eetggtagge teeegaggee ttggetgeag cattteeage
                                                                      720
ggccccatcc agaagcctgg catctttatc agccatgtga aacctggctc cctgtctgct
                                                                      780
gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac
                                                                     840
ctggatcaca aggaggctgt aaatgtgctg aaaaatagcc gcagcctgac catctccatt
                                                                     900
gtagetgeag etggeeggga getgtteatg acagaceggg ageggetgge agaggegegg
                                                                     960
cagcgtgagc tgcagcggca ggagcttctc atgcagaagc ggctggcgat ggagtccaac
                                                                   - 1020
aagateetee aggageagea ggagatggag eggeaaagga gaaaagaaat tgeeeagaag
                                                                     1080
```

```
gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag
                                                                     1200
aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact cttgcctaaa
                                                                     1260
accatcactg ctgaggtaca cccagtaccc cttcgcaagc caaagtatga tcagggagtg
                                                                     1320
gaacctgage tegageeege agatgaeetg gatggaggea eggaggagea gggagageag
                                                                     1380
acattttgcc caagcccaca gcctccacga ggccctggcg tgtccaccat ctccaaacct
                                                                     1440
gtcatggtcc accaggagcc caatttcatc tacaggccag ctgtgaaatc tgaagttctg
                                                                     1500
ccacaggaga tgttgaagag gatggtggtt tatcaagaca gcattcaaga caagatttcc
                                                                     1560
ggaaatatga ggaaggettt gaccectact ctatgttcac cecagageag atcatgggga
                                                                     1620
aggatgteeg geteetaege ateaagaagg agggateett agacetggee etggaaggeg
                                                                     1680.
gtgtggactc ccccattggg aaggtggtcg tttctgctgt gtatgagcgg ggagctgctg
                                                                     1740
ageggeatgg tggcattgtg aaaggggaeg agateatgge aateaaegge aagattgtga
                                                                     1800
cagactacac cetggetgag getgaegetg ceetgeagaa ggeetggaat cagggegggg
                                                                     1860
actggatcga ccttgtggtt gccgtctgcc ccccaaagga gtatgacgat gagctgacct
                                                                     1920
tettgetgaa gteeaaaagg ggaaaccaaa tteacgegtt aggaaacagt gageteegge
                                                                     1980
cccacctcgt gaacacaaag cctcggacca gccttgagag aggccacatg acacacaca
                                                                     2040
gatggcatcc ttgggacctg aatctatcac ccaggaatct caaactccct ttggccctga
                                                                     2100
accagggcca gataaggaac agctcgggcc acttttttga aggccaatgt ggaggaaagg
                                                                     2160
gagcagccag ccgtttggga gaagatctca aggatccaga ctctcattcc tttcctctgg
                                                                     2220
cccagtgaat ttggtctctc ccagctttgg gggactcctt ccttgaaccc taataagacc
                                                                     2280
ccactggagt ctctctctc ccatccctct cctctgccct ctgctctaat tgctgccagg
                                                                     2340
attgtcactc caaaccttac tctgagctca ttaataaaat aaacagattt attttccagc
                                                                     2400
ttaaaaaaa
                                                                     2409
```

<210> 561 <211> 521 <212> PRT <213> Homo Sapiens

<400> 561 Daugh Ad Ama Tigor

```
Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
            10
Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
            20 - 3 32/80 34/3 33/3 25/3 35 3 3 3 3 3 3 3 3 3
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
                    7.4
                            40
                                               45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
                        55
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
                    70
                                        75
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
                                105
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
                            120
                                                125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
                        135
                                            140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
                    150
                                        155
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
                165
                                    170
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
                                185
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
```

200

₹₹₩ 77/109203 A € 1/002/012#0 / 2

```
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
                                215
        Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
                            230
                                                235
        Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
                        245
                                            250
        Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
                                        265
                                                            270
        Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
                                    280
        Val Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
                                295
        Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
                            310
                                                315
        Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Glu
                        325
                                            330
        Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
                                        345
        Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu
                                    360
        Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu
                                375
                                                    380
        Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg
                            390
                                                395
        Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp
                        4.0.5
                                            410
        Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Thr Phe Cys Pro
                                        425
Ser Pro Gln Pro Pro Arg Gly Pro Gly Val Ser Thr Ile Ser Lys Pro
                        . . . . 440
                                                        445
                                                                . . . . . . . . .
       .Val Met Val His Gln Glu Pro Asn Phe Ile Tyr Arg Pro Ala Val Lys
4.70.1 i and 450
                        .. ... 455
       Ser Glu Val Leu Pro Gln Glu Met Leu Lys Arg Met Val Val Tyr Gln
                            470
                                                475
        Asp Ser Ile Gln Asp Lys Ile Ser Gly Asn Met Arg Lys Ala Leu Thr
                        485
                                            490
        Pro Thr Leu Cys Ser Pro Gln Ser Arg Ser Trp Gly Arg Met Ser Gly
                                        505
        Ser Tyr Ala Ser Arg Arg Arg Asp Pro
                515
                                    520
              <210> 562
              <211> 1445
              <212> DNA
              <213> Homo Sapiens
              <400> 562
        ctccggcagg gagtcctagc gcagactttg cggttcatgg agagtctctg ggagacaggc
                                                                               60
        acctgcggac gctgcagata agttacgacg cactgaaaga tgaaaattct aagctgagaa
                                                                              120
        gaaagetgaa tgaggtteag agettetetg aageteaaac agaaatggtg aggaegettg
                                                                              180
        agcggaagtt agaagcaaaa atgatcaagg aggaaagcga ctaccacgac ctggagtcgg
                                                                              240
        tggttcagca ggtggagcag aacctggagc tgatgaccaa acgggctgta aaggcagaaa
                                                                              300
        accacgtcgt gaaactaaaa caggaaatca gtttgctcca ggcgcaggtc tccaacttcc
                                                                              360
        agcgagagaa tgaagccctg cggtgcggcc agggtgccag cctgaccgtg gtgaagcaga
                                                                              420
        acgeegaegt ggeeetgeag aaceteeggg tggteatgaa cagtgeacag getteeatea
                                                                              480
```

A C A1 UU/U/A7U1/ YY U フラ/UなんUJ

```
agcaactqqt ttccggagct gagacactga atcttgttgc cgaaatcctt aaatctatag
                                                                       540 ·
acagaatttc tgaagttaaa gacgaggagg aagactcttg aggacccctg ggtgttctca
                                                                       600
gcatgaagct cogtgtatac cottgaggtca coaccgotcg atctaaatgt gcagttgtgt
                                                                       660
ccttaaatat gcagtcttca cccagagtaa agtgttgatc gcaagagtcc agtgtcgtgc
                                                                       720
cctcaqccag ttcttggcca ccacaatggg agcagccctg gccgagttgt ctctgtggtt
                                                                       780
totatgcage cottettgge gaaattootg egatottata gattotaatg agetottgga
                                                                       840
agacattgtc ataaaagcca gtgattttaa gaaaaagagt ggttctggaa tcaatgtttt
                                                                       900
ccaqtcccat cccagaacat cagttgtaag ataagtacaa ttggttgtcc ttgatttcat
                                                                       960
aaqtaqaaca aacactaaat gtgcctctga gatggccacc ccgggcaggg acctgtgcct
                                                                      1020
tecgeegatg eteagggete cetetggete eegggteact ettgtggeee eagtgggtgg
                                                                      1080
tecetgeagt catggeetga gtgegeaggg gecaeegegt ggetgetget gteeteetee
                                                                      1140
ggggaccacg ggggaacaag gtcacacctt ccgtgctgtg aagctgtcca gatgtgcctc
                                                                      1200
tttqqctqqq qqttttgqtg gacgtttcaa gtggcatttt gtacaatgca ggttaqaatt
                                                                      1260
caggaatttc aagtatgtgc ccgggtntgt caggtcccag ttgcctttnt gacggccccc
                                                                      1320
ctcagaggga cggcgatgag cactaaatgc ttttttgant attttcctat agatttttt
                                                                      1380
taaaactttt ttttcctcct gttccaattg atagctttct tatttaataa attctgtagt
                                                                      1440
tcacc
                                                                      1445
```

<210> 563 <211> 192 <212> PRT <213> Homo Sapiens

<400> 563 Pro Ala Gly Ser Pro Ser Ala Asp Phe Ala Val His Gly Glu Ser Leu 5 Gly Asp Arg His Leu Arg Thr Leu Gln Ile Ser Tyr Asp Ala Leu Lys 25 The Land Aspective Aspective Aspective Aspective Leu Arg Arg Lys Leu Asp Glu Val Gln SerePhe and the contractive 35 40 Ser Glu Ala Gln Thr Glu Met Val Arg Thr Leu Glu Arg Lys Leu Glu 55 60 1980 - Arthur 1880 - 1880 -Light with the Alac Lys Met Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Wal 70 75 Val Gln Gln Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val 85 90 Lys Ala Glu Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu 105 Gln Ala Gln Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys 120 Gly Gln Gly Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala 135 Leu Gln Asn Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys 150 155 145 Gln Leu Val Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu 170 Lys Ser Ile Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser

> <210> 564 <211> 1226 <212> DNA <213> Homo Sapiens

<400> 564

```
ctgggccgcg aggcgcggag cttgggagcg gagcccaggc cgtgccgcg ggcgccatga
                                                                        60
agggcaagga ggagaaggag ggcggcgcac ggctgggcgc tggcggcgga agccccgaga
                                                                       120
agagecegag egegeaggag eteaaggage agggeaateg tetgttegtg ggeegaaagt
                                                                       180
acceggagge ggeggeetge tacggeegeg egatcaceeg gaaccegetg gtggeegtgt
                                                                       240
attacaccaa cogggoottg tgotacctga agatgcagca gcacgagcag gccctggccg
                                                                       300
actgeeggeg egecetggag etggaegge agtetgtgaa ggegeaette tteetgggge
                                                                       360
agtgccaget ggagatggag agetatgatg aggccatege caatetgcag cgagettaca
                                                                      420
geetggeeaa ggageagegg etgaaetteg gggaegaeat eeceageget ettegaateg
                                                                       480
cgaagaagaa gcgctggaac agcattgagg agcggcgcat ccaccaggag agcgagctgc
                                                                       540
actectacet etecaggete attgeegegg agegtgagag ggagetggaa gagtgeeage
                                                                       600
gaaaccacga gggtgatgag gacgacagcc acgtccgggc ccagcaggcc tgcattgagg
                                                                       660
ccaagcacga caagtacatg gcggacatgg acgagetttt ttetcaggtg gatgagaaga
                                                                       720
ggaagaagcg agacatcccc gactacctgt gtggcaagat cagctttgag ctgatgcggg
                                                                       780
ageegtgeat caegeecagt ggeateacet aegaeegeaa ggaeategag gageaeetge
                                                                       84.0-
agegtgtggg teattttgae eeggtgaeeg ggageeeet gaeeeaggaa eagtteatee
                                                                       900
ccaacttggc tatgaaggag gttattgacg cattcatctc tgagaatggc tgggtggagg
                                                                       960
actactgagg ttccctgccc tacctggcgt cctggtccag gggagccctg ggcagaagcc
                                                                      1020
cccggcccct aaacatagtt tatgtttttg gccaccccga ccgcttcccc caagttctgc
                                                                      1080
tgttggactc tggactgttt cccctctcag catcgctttt gctgggccgt gattgtcccc
                                                                      1140
tttgtgggct ggaaaagcag gtgagggtgg gctgggctga ggccattgcc gccactatct
                                                                      1200
gtgtaataaa atccgtgagc acgaaa
                                                                     1226
```

<210> 565

<211> 303

<212> PRT

<213> Homo Sapiens

<400> 565

1	Lys		•	5	. •				10	•		1.		1 5	
	y Gly		20		. "			25					30	Glu	
	/ Asn	35					40					45			_
	Gly 50					55					60				
65	a Arg				70					75					0.0
	a Asp			85					90					0 =	Ala
	Phe		100					105					110	Asp	
	Ile	TT2					120			•		125	Glu		-
	Asn 130					135					140	Ile	Ala		
140					150					155	His				100
	His			165					170	Ala				175	Glu
	Glu		T80					185					190	Ser	
	Arg	T 3 2					200					205	Lys		
Ala	Asp	Met	Asp	Glu	Leu	Phe	Ser	Gln	Val	Asp	Glu	Lys	Arg.	Lys	Lys

```
210
                        215
                                             220
Arg Asp Ile Pro Asp Tyr Leu Cys Gly Lys Ile Ser Phe Glu Leu Met
                    230
Arg Glu Pro Cys Ile Thr Pro Ser Gly Ile Thr Tyr Asp Arg Lys Asp
                                    250
Ile Glu Glu His Leu Gln Arg Val Gly His Phe Asp Pro Val Thr Gly
                                265
Ser Pro Leu Thr Gln Glu Gln Phe Ile Pro Asn Leu Ala Met Lys Glu
                            280
Val Ile Asp Ala Phe Ile Ser Glu Asn Gly Trp Val Glu Asp Tyr
                        295
    290
                                             300
      <210> 566
      <211> 1857
      <212> DNA
      <213> Homo Sapiens
      <400> 566
gtgaggget cetttgggea ggggtagtgt ttggtgtece tgtettgegt gatattgaea
                                                                        60
aactgaagct ttcctgcacc actggactta aggaanagtg tactcgtagg cggacagctt
                                                                        120
tagtggeegg eeggeegete teateceeeg taaggageag agteetttgt actgaccaag
                                                                        180
atgagcaaca totacatoca ggagcotoco acgaatggga aggitttatt gaaaactaca
                                                                        240
gctggagata ttgacataga gttgtggtcc aaagaagctc ctaaagcttg cagaaatttt
                                                                        300
atcccaactt tgtttggaag cttattatga caataccatt tttcatagag ttgtgcctgg
                                                                        360
tttcatagtc caaggcggag atcctactgg cacagggagt ggtggagagt ctatctatqq
                                                                        420
agegeeatte aaagatgaat tteatteaeg gttgegtttt aateggagag qaetqqttqe
                                                                        480
catggcaaat getggttete atgataatgg caccacttt ttetteacac tgggtegage
                                                                        540
agatgaactt aacaataagc ataccatctt tggaaaggtt acaggggata cagtatataa
                                                                        600
catgttgcga ctgtcagaag tagacattga tgatgacgaa agaccacata atccacacaa
                                                                        660 ...
aataaaaagc tgtgaggttt tgtttaatcc ttttgatgac atcattccaa gggaaattaa
                                                                       ..7.20 ........
aaggctgaaa aaagagaaac cagaggagga agtaaagaaa ttgaaaccca aaggcacaaa
                                                                        7.80%, %...
aaattttagt ttactttcat ttggagagga agctgaggaa gaagaagagg aagtaaatcq
                                                                        840 855
agttagtcag agcatgaagg gcaaaagcaa aagtagtcat gacttgctta aggatgatcc
                                                                        900:...
acatotoagt totgttocag ttgtagaaag tgaaaaaggt gatgcaccaq atttaqttqa
                                                                        960
tgatggagaa gatgaaagtg cagagcatga tgaatatatt gatggtgatg aaaagaacct
                                                                       1020:
gatgagagaa agaattgcca aaaaattaaa aaaggacaca agtgcgaatg ttaaatcagc
                                                                       1080
tggagaagga gaagtggaga agaaatcagt cagccgcagt gaagagctca gaaaaqaaqc
                                                                       1140
aagacaatta aaacgggaac tcttagcagc aaaacaaaaa aaagtagaaa atgcagcaaa
                                                                       1200
acaagcagaa aaaagaagtg aagaggaaga agcccctcca gatggtqctg ttqccqaata
                                                                       1260
cagaagagaa aagcaaaagt atgaagcttt gaggaagcaa cagtcaaaga agggaacttc
                                                                       1320
cogggaagat cagaccettg cactgetgaa ccagtttaaa tetaaactca etcaagcaat
                                                                       1380
tgctgaaaca cctgaaaatg acattcctga aacagaagta gaagatgatg aaggatggat
                                                                       1440
gtcacatgta cttcagtttg aggataaaag cagaaaagtg aaagatgcaa gcatgcaaqa
                                                                       1500
ctcagataca tttgaaatct atgatcctcg gaatccagtg aataaaagaa ggaqqqaaqa
                                                                       1560
 aagcaaaaag ctgatgagag agaaaaaaga aagaagataa aatgagaata atgataacca
                                                                       1620
 gaacttgetg gaaatgtgee tacaatggee ttgtaacage cattgtteee aacagcatea
                                                                       1680
 cttaggggtg tgaaaagaag tatttttgaa cctgttgtct ggttttgaaa aacaattatc
                                                                       1740
 ttgttttgca aattgtggaa tgatgtaagc aaatgctttt ggttactggt acatgtgttt
                                                                       1800
 tttcctagct qaccttttat attgctaaat ctgaaataaa ataactttcc ttccaaa
                                                                       1857
       <210> 567
```

<211> 372

<212> PRT

<213> Homo Sapiens

```
<400> 567
Met Ala Asn Ala Gly Ser His Asp Asn Gly Thr His Phe Phe Thr
Leu Gly Arg Ala Asp Glu Leu Asn Asn Lys His Thr Ile Phe Gly Lys
                               25
Val Thr Gly Asp Thr Val Tyr Asn Met Leu Arg Leu Ser Glu Val Asp
                     40 45
Ile Asp Asp Asp Glu Arg Pro His Asn Pro His Lys Ile Lys Ser Cys
                                          60
Glu Val Leu Phe Asn Pro Phe Asp Asp Ile Ile Pro Arg Glu Ile Lys
                   70
                                      75
Arg Leu Lys Lys Glu Lys Pro Glu Glu Glu Val Lys Lys Leu Lys Pro
               85
                                  90
Lys Gly Thr Lys Asn Phe Ser Leu Leu Ser Phe Gly Glu Glu Ala Glu
           100
                               105
Glu Glu Glu Glu Val Asn Arg Val Ser Gln Ser Met Lys Gly Lys
                           120
Ser Lys Ser Ser His Asp Leu Leu Lys Asp Asp Pro His Leu Ser Ser
                       135
Val Pro Val Val Glu Ser Glu Lys Gly Asp Ala Pro Asp Leu Val Asp
                   150
                                       155
Asp Gly Glu Asp Glu Ser Ala Glu His Asp Glu Tyr Ile Asp Gly Asp
               165
                                  170
Glu Lys Asn Leu Met Arg Glu Arg Ile Ala Lys Lys Leu Lys Lys Asp
           180
                               185
Thr Ser Ala Asn Val Lys Ser Ala Gly Glu Gly Glu Val Glu Lys Lys
                           200
Ser Val Ser Arg Ser Glu Glu Leu Arg Lys Glu Ala Arg Gln Leu Lys
               5 1921555 No. 1934 (1934 ) 220 Holy Tri
Arg Glu Leu Leu Ala Ala Lys Gln Lys Lys Val Glu Asn Ala Ala Lys
                Gln Ala Glu Lys Arg Ser Glu Glu Glu Glu Ala Pro Pro Asp Gly Ala
               245 年 - 英国联系统设施设计 (1970-250)
                                            17. 2.
Val Ala Glu Tyr Arg Arg Glu Lys Gln Lys Tyr Glu Ala Leu Arg Lys
                     265
Gln Gln Ser Lys Lys Gly Thr Ser Arg Glu Asp Gln Thr Leu Ala Leu
                           280
                                              285
Leu Asn Gln Phe Lys Ser Lys Leu Thr Gln Ala Ile Ala Glu Thr Pro
                       295
Glu Asn Asp Ile Pro Glu Thr Glu Val Glu Asp Asp Glu Gly Trp Met
                   310
                                       315
Ser His Val Leu Gln Phe Glu Asp Lys Ser Arg Lys Val Lys Asp Ala
               325
                                   330
Ser Met Gln Asp Ser Asp Thr Phe Glu Ile Tyr Asp Pro Arg Asn Pro
                               345
Val Asn Lys Arg Arg Glu Glu Ser Lys Lys Leu Met Arg Glu Lys
                           360
Lys Glu Arg Arg
    370
```

<210> 568 <211> 1537

<212> DNA

<213> Homo Sapiens

1 4 90 m - **2**8 0 x 25 m

#### <400> 568

gccgcgcgcc	gatcggtcgt	taccgcgagg	cgctggtggc	cttcaggctg	gacggcgcgg	60
gtcagccctg	gttcgccggc	ttctgggtct	ttgaacagcc	gcgatgtcga	tcttcacccc	120
caccaaccag	atccgcctaa	ccaatgtggc	cgtggtacgg	atgaagcgtg	ccgggaagcg	180
cttcgaaatc	gcctgctaca	aaaacaaggt	cgtcggctgg	cggagcggcg	tggaaaaaga	240
cctcgatgaa	gttctgcaga	cccactcagt	gtttgtaaat	gtttctaaag	gtcaggttgc	300
caaaaaggaa	gatctcatca	gtgcgtttgg	aacagatgac	caaactgaaa	tctgtaagca	360
gattttgact	aaaggagaag	ttcaagtatc	agataaagaa	agacacacac	aactggagca	420
gatgtttagg	gacattgcaa	ctattgtggc	agacaaatgt	gtgaatcctg	aaacaaagag	480
accatacacc	gtgatcctta	ttgagagagc	catgaaggac	atccactatt	cggtgaaaac	540
caacaagagt	acaaaacagc	aggctttgga	agtgataaag	cagttaaaag	agaaaatgaa	600
gatagaacgt	gctcacatga	agcttcggtt	catccttcca	gtcaatgaag	gcaagaactg	660
aaagaaaagc	tcaagccact	gatcaaggtc	atagaaagtg	aagattatgg	ccaacagtta	720
gaaatcgtat	gtctgattga	cccgggctgc	ttccgagaaa	ttgatgagct	aataaaaaag	780
gaaactaaag	gcaaaggttc	tttggaagta	ctcaatctga	aagatgtaga	agaaggagat	840
gagaaatttg	aatgacaccc	atcaatctct	tcacctctaa	aacactaaag	tgtttccgtt	900
tccgacggca	ctgtttcatg	tctgtggtct	gccaaatact	tgcttaaact	atttgacatt	960
ttctatcttt	gtgttaacag	<b>tggacaca</b> gc	aaggctttcc	tacataagta	taataatgtg	1020
ggaatgattt	ggttttaatt	ataaactggg	gtctaaatcc	taaagcaaaa	ttgaaactcc	1080
aagatgcaaa	gtccagagtg	gcattttgct	actctgtctc	atgccttgat	agctttccaa	1140
aatgaaagtt	acttgangca	gctcttgtgg	gtgaaaagtt	atttgtacag	tagagtaaga	1200
ttattagggg	tatgtctata	caacaaaagg	gggggtcttt	cctaaaaaag	aaaacatatg	1260
atgcttcatt	tctacttaat	ggaacttgtg	ttctgagggt	cattatggta	tcgtaatgta	1320
aagcttggat	gatgttcctg	attatttgag	gaacagatat	aggaaaattg	tgccggaatt	1380
		ccataaatta				1440.
ttatttttaa	tttttaaagt	ttataatata	tattaatata	ggtaaaattg	tatgtaatca	1500
ataaaaccaa	ttttatgttt	attaaactta	aaaaaaa			1537

<210> 569

化邻唑基基甲烷酸二十烷基三亚

<211>9210

<212> PRT

<213> Homo Sapiens

## <400> 569

Ala Ala Arg Arg Ser Val Val Thr Ala Arg Arg Trp Trp Pro Ser Gly 5 10 Trp Thr Ala Arg Val Ser Pro Gly Ser Pro Ala Ser Gly Ser Leu Asn 25 Ser Arg Asp Val Asp Leu His Pro His Gln Pro Asp Pro Pro Asn Gln 40 Cys Gly Arg Gly Thr Asp Glu Ala Cys Arg Glu Ala Leu Arg Asn Arg Leu Leu Gln Lys Gln Val Val Gly Trp Arg Ser Gly Val Glu Lys Asp 70 75 Leu Asp Glu Val Leu Gln Thr His Ser Val Phe Val Asn Val Ser Lys 85 90 Gly Gln Val Ala Lys Lys Glu Asp Leu Ile Ser Ala Phe Gly Thr Asp 105 Asp Gln Thr Glu Ile Cys Lys Gln Ile Leu Thr Lys Gly Glu Val Gln 120 Val Ser Asp Lys Glu Arg His Thr Gln Leu Glu Gln Met Phe Arg Asp 135 140 Ile Ala Thr Ile Val Ala Asp Lys Cys Val Asn Pro Glu Thr Lys Arg 150 155 Pro Tyr Thr Val Ile Leu Ile Glu Arg Ala Met Lys Asp Ile His Tyr

```
165
                                     170
                                                          175
 Ser Val Lys Thr Asn Lys Ser Thr Lys Gln Gln Ala Leu Glu Val Ile
                                 185
Lys Gln Leu Lys Glu Lys Met Lys Ile Glu Arg Ala His Met Lys Leu
                             200
                                                 205
 Arg Phe
     210
       <210> 570
       <211> 1211
       <212> DNA
       <213> Homo Sapiens
       <400> 570
accatctttg gaaaggttac aggggtatac agtatataac atgttgcgac tgtcagaagt
agacattgat gatgacgaaa gaccacataa tccacacaaa ataaaaagct gtgaggtttt
                                                                        60
gtttaatcct tttgatgaca tcattccaag ggaaattaaa aggctgaaaa aagagaaacc
                                                                       120
agaggaggaa gtaaagaaat tgaaacccaa aggcacaaaa aattttagtt tactttcatt
                                                                       180
tggagaggaa gctgaggaag aagaggagga agtaaatcga gttagtcaga gcatgaaggg
                                                                       240
caaaagcaaa agtagtcatg acttgcttaa ggatgatcca catctcagtt ctgttccagt
                                                                       300
tgtagaaagt gaaaaaggtg atgcagcaga tttagttgat gatggagaag atgaaagtgc
                                                                       360
agagcatgat gaatatattg atggtgatga aaagaacctg atgagagaaa gaattgccaa 480
aaaattaaaa aaggacacaa gtgcgaatgt taaatcagct ggagaaggag aagtggagaa
gaaatcagtc agccgcagtg aagagctcag aaaagaagca agacaattaa aacgggaact
                                                                       540
cttagcagca gaacaaaaaa aagtagaaaa tgcagcaaaa caagcagaaa aaagaagtga
                                                                       600
                                                                       660
agaggaagaa gcccctccag atggtgctgt tgccgaatac agaagagaaa agcaaaagta
tgaagetetg aggaageaac agteaaagaa gggaaettee egggaagate agaceettge
                                                                       720
actgctgaac cagtttaaat ctaaactcac tcaagcaatt gctgaaacgc ctgaaaatga
                                                                       780
cattcctgaa acagaagtag aagatgatga aggatggatg tcacatgtac ttcagtttga
                                                                       840
ggataaaagc agaaaagtga aagatgcaag catgcaagac tcagatacat ttgaaatcta
                                                                       900
tgatcctcgg aatccagtga ataaaagaag gagggaagaa agcaaaaagc tgatgagaga
                                                                       960
gaaaaaagaa agaagataaa atgagaataa tgataaccag aacttgctgg aaatgtgcct
                                                                      1020
acaatggcct tgtaacagcc attgttccca acagcatcac ttaggggtgt gaaaagaagt
                                                                      1080
atttttgaac ctgttgtctg gttttgaaaa acaattatct tgttttgcaa attgtggaat
                                                                      1140
                                                                      1200
gatgtaagca a
                                                                      1211
      <210> 571
      <211> 354
      <212> PRT
      <213> Homo Sapiens
      <400> 571
Pro Ser Leu Glu Arg Leu Gln Gly Tyr Thr Val Tyr Asn Met Leu Arg
                                    10
Leu Ser Glu Val Asp Ile Asp Asp Asp Glu Arg Pro His Asn Pro His
Lys Ile Lys Ser Cys Glu Val Leu Phe Asn Pro Phe Asp Asp Ile Ile
                            40
Pro Arg Glu Ile Lys Arg Leu Lys Lys Glu Lys Pro Glu Glu Glu Val
Lys Lys Leu Lys Pro Lys Gly Thr Lys Asn Phe Ser Leu Leu Ser Phe
Gly Glu Glu Ala Glu Glu Glu Glu Glu Val Asn Arg Val Ser Gln
Ser Met Lys Gly Lys Ser Lys Ser Ser His Asp Leu Leu Lys Asp Asp
```

```
105
           100
Pro His Leu Ser Ser Val Pro Val Val Glu Ser Glu Lys Gly Asp Ala
                           120
Ala Asp Leu Val Asp Asp Gly Glu Asp Glu Ser Ala Glu His Asp Glu
                       135
                                          140
Tyr Ile Asp Gly Asp Glu Lys Asn Leu Met Arg Glu Arg Ile Ala Lys
                                     . 155
                   150
Lys Leu Lys Lys Asp Thr Ser Ala Asn Val Lys Ser Ala Gly Glu Gly
               165
                                   170
Glu Val Glu Lys Lys Ser Val Ser Arg Ser Glu Glu Leu Arg Lys Glu
                               185
Ala Arg Gln Leu Lys Arg Glu Leu Leu Ala Ala Glu Gln Lys Lys Val
        195
                           200
Glu Asn Ala Ala Lys Gln Ala Glu Lys Arg Ser Glu Glu Glu Glu Ala
                                           220
                       215
Pro Pro Asp Gly Ala Val Ala Glu Tyr Arg Arg Glu Lys Gln Lys Tyr
                                       235
Glu Ala Leu Arg Lys Gln Gln Ser Lys Lys Gly Thr Ser Arg Glu Asp
                245
                                   250
Gln Thr Leu Ala Leu Leu Asn Gln Phe Lys Ser Lys Leu Thr Gln Ala
                               265
Ile Ala Glu Thr Pro Glu Asn Asp Ile Pro Glu Thr Glu Val Glu Asp
        275 280 285
Asp Glu Gly Trp Met Ser His Val Leu Gln Phe Glu Asp Lys Ser Arg
                                           300
                        295
Lys Val Lys Asp Ala Ser Met Gln Asp Ser Asp Thr Phe Glu Ile Tyr
                                       315
Asp Pro Arg Asn Pro Val Asn Lys Arg Arg Arg Glu Glu Ser Lys Lys
     335
                                                                      化油矿 医抗磷酸过滤液
Leu Met ArgaGlusLys Lys Glu Arg Arg. Ile Leu Pro Val Asn Glu Gly
                                                                   and the second section of the second
                              • 345
   340 . S
                             in the Mark
Lys Asn a cogacilation.
                                                                      19:13:174.04 - 6.0
   <210> 572
       <211> 604
       <212> DNA
       <213> Homo Sapiens
       <400> 572
 cetteggeaa aaaattttgg teecaacttt ttgtteeatt eeaaaaggge ttacetteat
                                                                      60
 tecetttage aacagggeee ceaagaaget eeegtteatt caecettace ttggeeeeca
                                                                     120
 ggttggaccc ccaaaggctc ccttacccca aagtgggtgg ttgaataaat cttctcagtt
                                                                     180
 ccctqqctcc caaqqcccat tgaagaagat tgtacaaggc gtgcctcaag taccccgagt
                                                                     240
 qqaaacagaa gcacctgcct cacttcaagc cgtggctgca cccggagcag agcccgttgc
                                                                     300
 cqaqcctqqc gctgtcggag ctgtcggtgc agcatgcgga ctcactggag aacatcgacg
                                                                     360
 agagcgcggt ggccgagagc agagaggagc ggatgggcgg cgcgggcggc gagggcagcg
                                                                     420
 acqacqacac cttcacctga gcccgcaccg cttcagggac ggagacagga ccgggcgagc
                                                                     480
 cetgggggg eggeegetee tgeaetttet eccetecee acceggeace tggtggeace
                                                                     540
 gggccaggcc caggcgggtg ctgcagcctg gctggacaga gcccaataaa cggatcccac
                                                                     600
                                                                     604
 agcc
```

<210> 573 <211> 195 <212> PRT

17 *U 771* UT#U

## <213> Homo Sapiens

		<2	213.>	Homo	Sar	oiens	3												
	·			<b>.</b>															
	T 011		400>		т1.	T 011	**- *	D	m1	m1	<b>a</b>	_							
	1	Arg	GIII	ьys	5	Leu	vai	Pro	Thr		Cys	șer	Ile	Pro		Gly			•
		Thr.	Dhe	т1Д	_	Dho	802	7.00	7~~	10	D	T		_	15				
	пец		rnc	20	FIO	FIIC	SET	ASII	25						Pro	Phe			
	TIE	His	Pro		T.em	Glv	Pro	Gln	. 23 . Val	 Glar	Dro	 Dxo		30		_			
			35	7 -		Cry	110	40	Val	Gry	PLO	PLO		Ата	Pro	Leu			
	Pro	Gln		Glv	Trp	Leu	Asn		Ser	Ser	Gln	Dhe	45 Dro	<b>01</b>	0	<b>~</b> 1			
•		50		2			55	-1-		201	0111	60	FIO	GLY	ser	GIN		•	
	Gly	Pro	Leu	Lys	Lys	Ile		Gln	Glv	Val	Pro		Val	Pro	Ara	Val			
	65			•	-	70			2		75		val	FIO	Arg	80			
	Glu	Thr	Glu	Ala	Pro	Ala	Ser	Leu	Gln	Ala	Val	Ala	Ala	Pro	Glv	_Ala_			
		·			85					90					95	ra_a_			
	Glu	Pro	Val	Ala	Glu	Pro	Gly	Ala	Val	Gly	Ala	Val	Gly	Ala	Ala	Cvs			
				100				-	105					110		_			
	Gly	Leu	Thr	Gly	Glu	His	Arg	Arg	Glu	Arg	Gly	Gly	Arg	Glu	Gln	Arq			
			115					120					125			_			
	Gly	Ala	Asp	Gly	Arg	Arg	Gly	Arg	Arg	Gly	Gln	Arg	Arg	Arg	His	Leu			
	'	130	_	_			135					140							
	His	Leu	Ser	Pro	His	Arg	Phe	Arg	Asp	Gly		Arg	Thr	Gly	Arg	Ala		• • • • • • • • • • • • • • • • •	
	145	<b>~</b> 1	7	7	D	150	<b>.</b>	•••	_,	_	155					160			
	Leu	Gly	Arg	Arg	165	Leu	Leu	HIS	Pne		Pro	Ser	Pro	Thr		His			
	T.e.ii	Val	Δla	Pro		Gln	Λla	Gla	73-	170	7.1.	27-		_	175				
	200	Val	niu	180	Gry	GIII	Ата	GIII	185	GIY	Ara	Ата	Ala		Leu	Asp			
***	Arq	Ala	Gln						100					190					
design and the con-	,		195													14 N		*	
3 to 3. 1			×3							•									
1 1 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<2	210>	574													•		10 x 17.
5774 (13.5%) 12.5%		<2	211>	742															ter Tari
		<2	212>	DNA															
•		<2	213>	Homo	Sar	iens	;											•	
			100>				•												
	CCCa	accag	igg (	cccc	tcga	t go	agag	gacaç	g agg	gtcgg	rtgc	tgad	cgct	gc a	acgto	gact	g	60	
	CCE	accag	gga g	gcaga	ggcc	C Ca	iggts	ggago	aag	ıttgg	caa	agto	cacto	ct d	etete	ccca	a	120	
	ggct	gccg	igc a	atgg		g co	tgg	cccc	g gcc	cctg	rtga	ggad	cccc	cg g	ggtgo	ctggg	a	180	
	taaa	aggu	-90 c	19999	gete	c ga	gec	cctgc	j tga	ictgt	cac	cgto	gcagt	ge g	gaatt	caca	g	240	
	cctt	cett	ay y	ggcag	gaay	a gg	age	gaco	tgt	ccag	rcct	gcgg	ggcac	etg o	tggg	gccaa	g	300	
	acto	raato	icc (	rates	יחממפ	g ct	.cygc	teaat	- CC8	gtta	cct	agco	ccas	igt s	gagga	acggg	C	360	
	adde	ccado	iaa i	ictor	ladet	ם ני= א אפ	iggas	racco	. cgc	agag	iggc	ctg	gcago	rac c	gcago	ctgcc	t	420	
	taat	caaco	ica c	icaca	ayet aata	-c +c	יש יש נ	rcarr	y yag	,ccgg	999	ccgg	accac	ica (	cttta	accag	g	480	
	acac	caato	rga d	atico	tate	rt as	agto	agare	, 990	.caya	uyya vaa+	CCTC	ggct	.cc (	gaca	agggg	g	540	
	gcat	cada	at o	ttcc	ccaa	or to	rette	atac	, agg	card	iget iget	ggag	499CC	ac t	-gtga	acggc gagcc	C	600	
	ccg	geege	ct o	icccc	gato	d da	gcac	igaac	, atc	age	cta	atos	ataat	icy (	-cago	gagco atgat	C 	660	
	ettt	taat	aa a	aaca	acco	d da	<i>ي ا</i> د ا	, =	,		Jua	acyc	Legel	.g. (	, LCC	acyat	g	720	

742

<210> 575

ettttaataa aaacaacccc ca

<211> 232

<212> PRT

<213> Homo Sapiens

```
<400> 575
His Gln Gly Pro Leu Asp Ala Glu Thr Glu Val Gly Ala Asp Arg Cys
                 5
                                    10
Thr Ser Thr Ala Tyr Gln Glu Gln Arg Pro Gln Val Glu Gln Val Gly
                                25
Lys Val Ala Pro Leu Ser Pro Gly Leu Pro Ala Met Gly Gly Pro Gly
                            40
Pro Gly Pro Cys Glu Asp Pro Ala Gly Ala Gly Ala Gly Ala Gly
                        55
Gly Ser Glu Pro Leu Val Thr Val Thr Val Gln Cys Ala Phe Thr Val
                    70
                                        75
Ala Leu Arg Ala Gly Arg Gly Ala Asp Leu Ser Ser Leu Arg Ala Leu
Leu Gly Gln Ala Phe Leu His Gln Ala Gln Leu Gly Gln Phe Ser Tyr
                                105
Leu Ala Pro Gly Glu Asp Gly His Trp Val Pro Ile Pro Glu Glu Glu
                            120
Ser Leu Gln Arg Ala Trp Gln Asp Ala Ala Ala Cys Pro Arg Gly Leu
                        135
                                             140
Gln Leu Gln Cys Arg Gly Ala Gly Gly Arg Pro Val Leu Tyr Gln Val
                    150
                                         155
Val Ala Gln His Arg Tyr Ser Ala Gln Gly Pro Glu Asp Leu Gly Phe
                                     170
Arg Gln Gly Asp Thr Val Asp Val Leu Cys Glu Val Asp Gln Ala Trp
Leu Glu Gly His Cys Asp Gly Arg Ile Gly Ile Phe Pro Lys Cys Phe
                             200
Val Val Pro Ala Gly Pro Arg Met Ser Gly Ala Pro Gly Arg Leu Pro
                         215.44 1 5 7 7 7 7 7 7
                                             220
Arg Ser Gln Gln Gly Asp Gln Pro
                     230
       <210> 576
       <211> 1087
       <212> DNA
```

<213> Homo Sapiens

# <400> 576

aagatgatgc ctagtaaatt acagaagaac aaacagagac tgcgaaacga tcctctcaat 60 caaaataagg gtaaaccaga cttgaataca acattgccaa ttagacaaac agcatcaatt 120 ttcaaacaac cggtaaccaa agtcacaaat catcctagta ataaagtgaa atcagaccca 180 caacqaatqa atqaacagcc acgtcagctt ttctgggaga agaggctaca aggacttagt 240 gcatcagatg taacagaaca aattataaaa accatggaac tacccaaagg tcttcaagga 300 qttqqtccaq qtaqcaatga tgagaccdtt ttatctgctg ttgccagtgc tttgcacaca 360 agetetgege caateacagg geaagtetee getgetgtgg aaaagaacee tgetgtttgg 420 cttaacacat ctcaacccct ctgcaaagct tttattgtca cagatgaaga catcaggaaa 480 caggaagagc gagtacagca agtacgcaag aaattggaag aagcactgat ggcagacatc 540 ttgtcgcgag ctgctgatac agaagagatg gatattgaaa tggacagtgg agatgaagcc 600 taagaatatg atcaggtaac tttcgaccga ctttccccaa gagaaaattc ctagaaattg 660 aacaaaaatg tttccactgg cttttgcctg taagaaaaaa aatgtacccg agcacataga 720 getttttaat ageactaacc aatgeetttt tagatgtatt titgatgtat atatetatta 780 ttcaaaaaat catgtttatt ttgagtccta ggacttaaaa ttagtctttt gtaatatcaa 840 qcaqqaccct aagatgaagc tgagcttttg atgccaggtg caatttactg gaaatgtagc 900 acttacgtaa aacatttgtt tcccccacag ttttaataag aacagatcag gaattctaaa 960 taaatttccc agttaaagat tattgtgact tcactgtata taaacatatt tttatacttt 1020 WU >>//04200 1.01/0520/140/2

```
attgaaaggg gacacctgta cattcttcca tcgtcactgt aaagacaaat aaatgattat
                                                                    1080
attcaca
                                                                   1087
      <210> 577
      <211> 200
      <212> PRT
      <213> Homo Sapiens
      <400> 577
Lys Met Met Pro Ser Lys Leu Gln Lys Asn Lys Gln Arg Leu Arg Asn
                 5
                                   10
Asp Pro Leu Asn Gln Asn Lys Gly Lys Pro Asp Leu Asn Thr Thr Leu
            20
                               25
Pro Ile Arg Gln Thr Ala Ser Ile Phe Lys Gln Pro Val Thr Lys Val
                           40
Thr Asn His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln Arg Met Asn
                       55
Glu Gln Pro Arg Gln Leu Phe Trp Glu Lys Arg Leu Gln Gly Leu Ser
                   70
                                       75
Ala Ser Asp Val Thr Glu Gln Ile Ile Lys Thr Met Glu Leu Pro Lys
               85
                                   90
Gly Leu Gln Gly Val Gly Pro Gly Ser Asn Asp Glu Thr Leu Leu Ser
                               105
                                                   110
Ala Val Ala Ser Ala Leu His Thr Ser Ser Ala Pro Ile Thr Gly Gln
      · 115
                           120
Val Ser Ala Ala Val Glu Lys Asn Pro Ala Val Trp Leu Asn Thr Ser
                       135
                                           140
Gln Pro Leu Cys Lys Ala Phe Ile Val Thr Asp Glu Asp Ile Arg Lys
     150
                                     155
                                                           160
Gln Glu Glu Arg Val Gln Gln Val Arg Lys Lys Leu Glu Glu Ala Leu
                                   170
Met Ala Asp Ile Leu Ser Arg Ala Ala Asp Thr Glu Glu Met Asp Ile
                               185
Glu Met Asp Ser Gly Asp Glu Ala
        195
                           200
      <210> 578
      <211> 2569
      <212> DNA
      <213> Homo Sapiens
      <400> 578
aagagtaaaa gctactcttt cagagagaaa aataggagat tcatgtgaca aagatttgcc
                                                                      60
totgaaattt tgtgagttoo cacagaagac tataatgoot ggatttaaaa caactgtata
                                                                     120
tgtttctcat ataaatgacc tttcagactt ttatgttcaa ctaatagaag atgaagctga
                                                                     180
aattagtcat ctttcagaga gattaaacag tgttaaaaca aggcccgaat attatgtagg
                                                                     240
tecacetttg caaagaggag atatgatatg tgetgtttte ceagaagata atttatggta
                                                                     300
tegtgetgtg atcaaggage aacaacceaa tgacettete tetgtgeagt ttatagatta
                                                                     360
tggcaatgtt tctgtggttc atactaacaa aataggtagg cttgaccttg ttaatgcaat
                                                                     420
attgccgggg ttgtgcattc attgctcctt gcagggattt gaggttcctg acaataaaaa
                                                                     480
ttctaagaaa atgatgcatt acttttccca acggaccagc gaggctgcaa taagatgtga
                                                                     540
atttgttaaa tttcaagaca gatgggaagt tattcttgct gatgaacatg ggatcatagc
                                                                     600
agatgatatg attagcaggt atgctctcag tgaaaaatct caagtagaac tttctaccca
                                                                     660
agtaattaaa agtgccagtt caaagtctgt taacaaatca gacattgaca cttcagtatt
                                                                     720
tettaactgg tataatccag aaaaaaaat gataagaget tatgecactg tgatagatgg
                                                                     780
```

```
acctgagtac ttttggtgtc agtttgctga tacggagaaa cttcagtgtt tagaaqtaga
                                                                       840
agtacagact gctggagaac aggtagcaga caggagaaat tgtatcccat qtccttatat
                                                                      900
tggagatcct tgtatagtaa gatacagaga agatggacat tattatagqq cacttatcac
                                                                      960
taatatttgt gaagattatc ttgtatctgt caggettgtg gaetttggaa acattgaaga
                                                                     1020
ctgtgtggac ccaaaagcac tctgggccat tccttctgaa cttctgtcgg ttcccatqca
                                                                     1080
agcettteca tgttgcetet cagggtttaa cattteagaa ggattatgtt eteaagaggg
                                                                     1140
aaatgactat ttctatgaaa taataacaga agatgtgttg gaaataacaa tactagaaat .....
                                                                     1200
cagaagggat gtttgtgata tccctttagc aattgttgac ttgaaaagca aaggtaaaag
                                                                     1260
tattaatgag aaaatggaga aatattctaa gactggtatt aaaagtgctc ttccctatga
                                                                     1320
aaatattgac tcagagataa agcagactct tgggtcctac aatcttgatg taggacttaa
                                                                      1380
gaaattaagt aataaagctg tacaaaataa aatatatatg gaacaacaga cagatgagct
                                                                      1440
tgctgaaata actgaaaaag atgtaaacat tattggaacc aaaccaagta acttccgtga
                                                                      1500
ccctaaaact gataacattt gtgaagggtt tgaaaacccc tgcaaagata aaattgatac
                                                                      1560
tgaggaactg gaaggtgaat tagagtgcca tetggttgac aaagcagagt ttgatqataa
                                                                     1620
atacctgatt acaggattta acacattact accacatget aatgaaacaa aggagatact
                                                                      1680
agaactgaat tcacttgagg tgccgctttc tcctgatgat gaatcaaaag aattcttaga
                                                                      1740
actggaatct attgagttac agaattctct ggtggtggat gaagaaaaaq qqqaqctaaq
                                                                      1800
cccggtgcca ccgaatgtgc cactctccca agagtgtgtc acaaaaggcg ccatggagct
                                                                      1860
atttacactg cagcttcctc tcagctgtga agctgagaaa cagccagaac tagaactacc
                                                                      1920
tacageccag etgeetttag atgacaagat ggateetttg tetttaggag ttagtcagaa
                                                                      1980
agcacaggaa tocatgtgta ctgaggacat gagaaagtca agttgtgtag aatcttttga
                                                                      2040
tgaccagege aggatgteat tgcatetaca_tggageagat_tgtgateeta_aaacacagaa ____2100 .
tgaaatgaat atatgtgaag aagaatttgt agagtataaa aacagggatg ccatttcggc
                                                                      2160
attgatgcct ttttctctga ggaagaaagc agtgatggaa gcaagcacaa taatggttta
                                                                      2220
ccagatcata tttcagntca attacagaac acctacactn tqaaaqcctt tactqttqqa
                                                                      2280
tctaaatgtg ttgtgtggtc aagtntaaga aacanatggt ctaaatgtga gattttagaa
                                                                      2340
acagctgaag aaggnacaag ggttttgaac ctttcaaatg gtatggagga gatagtgaac
                                                                      2400
cctgagaatg tctggaatgn nanacccaaa ttggataaga gtccacctga gaaaaggggt
                                                                      2460
ttggaggtga tggagattta accgtggatn tatagctgtg gccaatcagt cagaagctgc
                                                                      2520 .
contgaacaa gtggcatott acgcagacca acagagtatt tgagaaaat
                                                                      2569
```

<210> 579

<211> 752

<212> PRT

<213> Homo Sapiens

#### <4.00> 579

Arg Val Lys Ala Thr Leu Ser Glu Arg Lys Ile Gly Asp Ser Cys Asp 5 10 15. Lys Asp Leu Pro Leu Lys Phe Cys Glu Phe Pro Gln Lys Thr Ile Met 25 Pro Gly Phe Lys Thr Thr Val Tyr Val Ser His Ile Asn Asp Leu Ser 40 Asp Phe Tyr Val Gln Leu Ile Glu Asp Glu Ala Glu Ile Ser His Leu Ser Glu Arg Leu Asn Ser Val Lys Thr Arg Pro Glu Tyr Tyr Val Gly 70 75 Pro Pro Leu Gln Arg Gly Asp Met Ile Cys Ala Val Phe Pro Glu Asp 90 Asn Leu Trp Tyr Arg Ala Val Ile Lys Glu Gln Gln Pro Asn Asp Leu 100 105 Leu Ser Val Gln Phe Ile Asp Tyr Gly Asn Val Ser Val Val His Thr 120 Asn Lys Ile Gly Arg Leu Asp Leu Val Asn Ala Ile Leu Pro Gly Leu 140

```
Cys Ile His Cys Ser Leu Gln Gly Phe Glu Val Pro Asp Asn Lys Asn
                    150
                                        155
 Ser Lys Lys Met Met His Tyr Phe Ser Gln Arg Thr Ser Glu Ala Ala
                165
                                    170
 Ile Arg Cys Glu Phe Val Lys Phe Gln Asp Arg Trp Glu Val Ile Leu
            180
                                185
Ala Asp Glu His Gly Ile Ile Ala Asp Asp Met Ile Ser Arg Tyr Ala
         195
                            200
Leu Ser Glu Lys Ser Gln Val Glu Leu Ser Thr Gln Val Ile Lys Ser
                        215
                                            220
Ala Ser Ser Lys Ser Val Asn Lys Ser Asp Ile Asp Thr Ser Val Phe
                    230
                         .
                                       235
Leu Asn Trp Tyr Asn Pro Glu Lys Lys Met Ile Arg Ala Tyr Ala Thr
             245
                        _____250___
Val Ile Asp Gly Pro Glu Tyr Phe Trp Cys Gln Phe Ala Asp Thr Glu
                                265
Lys Leu Gln Cys Leu Glu Val Glu Val Gln Thr Ala Gly Glu Gln Val
        275
                            280
                                               285
Ala Asp Arg Arg Asn Cys Ile Pro Cys Pro Tyr Ile Gly Asp Pro Cys
                        295
Ile Val Arg Tyr Arg Glu Asp Gly His Tyr Tyr Arg Ala Leu Ile Thr
                         310
Asn Ile Cys Glu Asp Tyr Leu Val Ser Val Arg Leu Val Asp Phe Gly
                325
                                    330
Asn Ile Glu Asp Cys Val Asp Pro Lys Ala Leu Trp Ala Ile Pro Ser
                                345
Glu Leu Leu Ser Val Pro Met Gln Ala Phe Pro Cys Cys Leu Ser Gly
                           360
                                               365
Phe Asn Ile Ser Glu Gly Leu Cys Ser Gln Glu Gly Asn Asp Tyr Phe
                    3.75
                                           380
Tyr Glu Ile Ile Thr Glu Asp Val Leu Glu Ile Thr Ile Leu Glu Ile
                    390
                                       395
Arg Arg Asp Val Cys Asp Ile Pro Leu Ala Ile Val Asp Leu Lys Ser
                405
                                   410
Lys Gly Lys Ser Ile Asn Glu Lys Met Glu Lys Tyr Ser Lys Thr Gly
                               425
Ile Lys Ser Ala Leu Pro Tyr Glu Asn Ile Asp Ser Glu Ile Lys Gln
                           440
Thr Leu Gly Ser Tyr Asn Leu Asp Val Gly Leu Lys Lys Leu Ser Asn
                       455
                                           460
Lys Ala Val Gln Asn Lys Ile Tyr Met Glu Gln Gln Thr Asp Glu Leu
                   470
                                       475
Ala Glu Ile Thr Glu Lys Asp Val Asn Ile Ile Gly Thr Lys Pro Ser
                485
                                   490
Asn Phe Arg Asp Pro Lys Thr Asp Asn Ile Cys Glu Gly Phe Glu Asn
            500
                               505
Pro Cys Lys Asp Lys Ile Asp Thr Glu Glu Leu Glu Gly Glu Leu Glu
                           520
Cys His Leu Val Asp Lys Ala Glu Phe Asp Asp Lys Tyr Leu Ile Thr
                       535
                                           540
Gly Phe Asn Thr Leu Leu Pro His Ala Asn Glu Thr Lys Glu Ile Leu
                   550
                                       555
Glu Leu Asn Ser Leu Glu Val Pro Leu Ser Pro Asp Asp Glu Ser Lys
               565
                                   570
Glu Phe Leu Glu Leu Glu Ser Ile Glu Leu Gln Asn Ser Leu Val Val
```

シエノ ひひとり エマじょく

77 シンノンマルロン

```
585
            580
                                                     590
Asp Glu Glu Lys Gly Glu Leu Ser Pro Val Pro Pro Asn Val Pro Leu
                             600
Ser Gln Glu Cys Val Thr Lys Gly Ala Met Glu Leu Phe Thr Leu Gln
                        615
Leu Pro Leu Ser Cys Glu Ala Glu Lys Gln Pro Glu Leu Glu Leu Pro
                    630
                                         635
Thr Ala Gln Leu Pro Leu Asp Asp Lys Met Asp Pro Leu Ser Leu Gly
                645
Val Ser Gln Lys Ala Gln Glu Ser Met Cys Thr Glu Asp Met Arg Lys
                                 665
Ser Ser Cys Val Glu Ser Phe Asp Asp Gln Arg Arg Met Ser Leu His
                             680
        675
Leu His Gly Ala Asp Cys Asp Pro Lys Thr Gln Asn Glu Met Asn Ile
                                             700
                         695
Cys Glu Glu Glu Phe Val Glu Tyr Lys Asn Arg Asp Ala Ile Ser Ala
705
                     710
                                         715
Leu Met Pro Phe Ser Leu Arg Lys Lys Ala Val Met Glu Ala Ser Thr
                725
                                     730
Ile Met Val Tyr Gln Ile Ile Phe Gln Asn Tyr Arg Thr Pro Thr Leu
                                 745
            740
```

<210> 580

<211> 2077

<212> DNA

<213> Homo Sapiens

#### <400> 580

ctgttgattt tttggagaaa tatgggagaa acagtggaat atttttatga catttttagg ಗ್**60 ಪ**ಥೆದ್ದಿ ವಿಶ್⊝ದ್ಧ ಕ್ಷ್ಮ aaateacctg gettggttgg tagteecaca etgaetttee ttatgataat tetacagatg 1 **12.0**519 51449 gaggtgactc gagcagtgat gaggataaag aataacatga aactcctgtg gaagtagaac ty 180 cf. tr/ sery may tcatgactca ggttgaccaa gaggatatca ctcttcagag tggcagagat gaactaaatg < 24.0 time (spating)</p> aggageteat teaggaagaa agetetgaag acgaaggaga atatgaagag gttagaaaaq 7.300can) mixerac. atcaqqattc tqttqqtqaa atgaaggatg aaggggaaga gacttaaatt atcctgatac 360.... taccattgac ttgtctcacc ttcaacccca aaggtccatc cagaaattgg cttcaaaaga 420 ggaatcttct aattctagtg acagtaaatc acagagccgg agacatttgt cagccaagga 480 aagaagggaa atgaaaaaga aaaaacttcc aagtgactca ggagatttag aagcgttaga 540 gggaaaggat aaagaaaaag aaagtactgt acacattgaa actcatcaga acacaagcaa 600 aaatqttqcg gctgtgcagc caatgaaacg aggacaaaag agtaaaatga aaaaaatgaa 660 agaaaaatac aaagaccagg atgaagaaga ccgtgaactt atcatgaagt tgctggggtc 720 tqcaqqttca aacaaagaag aaaaagggaa gaaggggaag aaaggaaaaa caaaggacqa 780 acctgtgaag aaacagcccc agaaacctag aggtggacag agggtctctg acaacattaa 840 gaaaqaaact ccgttccttg aggttataac tcatgagtta caagactttg ctgtagatga 900 tccacatgat gacaaggaag agcaagatct ggatcaacag ggaaatgagg aaaacctatt 960 tgattetttg acaggecage cacateetga agatgtaeta etgtttgeca ttecaatatg 1020 tgeccettae accaecatga caaactacaa atataaagtg aaacttacte etggagtgea 1080 gaaaaaggga aaagctgcaa aaacagcctt gaatagtttc atgcattcca aagaagcaac 1140 agcaagagaa aaagacttat toogcagogt aaaggacaca gatttatcaa gaaacattoo 1200 tggcaaagtg aaaagtgtct gcacccaatc ttctgaacgt aaaaaggaaa tagctgaaat 1260 gaaattctaa aatatttgag aagagccaat tttatagcct tttggaagtt caaagatgaa 1320 ageaccatgt atcaggattt ccgcattata aaaatgaact aaacattgcc ttgctatatt 1380 caccaaaagg acttaattct tgtttttttc ccagttttat atagaggaaa cactqtctat 1440 qataqqattt ccaaaaqtat ttgtggacag ttaaatgcta attatataca tctgtaqtta 1500 1560 aactgaacag tgaagtggct tgattgctta aactattgac ttggtaagtc tactgtatat 1620

. 1008111 3.1520

1. State 3.19

1. 14. 連動作業等的 1.20

14.1**3**19 (1.14)

```
aacatctaat atatatta caggccaaat gaactaaaca ttgccttgct atattcacca 1680 aaaggactta attcttgttt ttttcccagt tttatataga ggaaacacta tgataggatt 1740 tcctaaagta ttggtggaca gttaaatgct aattatatac atctgtagtt attctacatt 1800 ttcttgaaat ttgagaggtt aataccaagt attcattca tgatgtaaag aaactgaaca 1860 gtgaagtggc ttgattgctt aaactattga cttggtaagt ctactgtata taacatctaa 1920 tatatatata ttataggcca gctacaaggg gtttaaatat ttaggattgt gtcttgaaaa 1980 ctaagtattg gagtggattt tcttctgctt tcattgatac ttgtcagaaa aaaatattag 2040 accaaaatgt aaaatataag taataattc catgaaa 2077
```

<210> 581 <211> 312 <212> PRT <213> Homo Sapiens

<400> 581 Arg Gly Arg Asp Leu Asn Tyr Pro Asp Thr Thr Ile Asp Leu Ser His 10 Leu Gln Pro Gln Arg Ser Ile Gln Lys Leu Ala Ser Lys Glu Glu Ser 20 25 Ser Asn Ser Ser Asp Ser Lys Ser Gln Ser Arg Arg His Leu Ser Ala 40 Lys Glu Arg Arg Glu Met Lys Lys Lys Leu Pro Ser Asp Ser Gly 55 Asp Leu Glu Ala Leu Glu Gly Lys Asp Lys Glu Lys Glu Ser Thr Val 70 His Ile Glu Thr His Gln Asn Thr Ser Lys Asn Val Ala Ala Val Gln 85 90 Pro Met Lys Arg Gly Gln Lys Ser Lys Met Lys Lys Met Lys Glu Lys 1915 Old 100 (100 A) 105 Tyr Lys Asp Gln Asp Glu Glu Asp Arg Glu Leu Ile Met Lys Leu Leu 115° - 4 120 Gly Ser Ala Gly Ser Asn Lys Glu Glu Lys Gly Lys Lys Gly Lys 135 communication (150 communication) 140 Gly Lys Thr Lys Asp Glu Pro Val Lys Lys Gln Pro Gln Lys Pro Arg 150 155 Gly Gly Gln Arg Val Ser Asp Asn Ile Lys Lys Glu Thr Pro Phe Leu 165 170 Glu Val Ile Thr His Glu Leu Gln Asp Phe Ala Val Asp Asp Pro His 185 Asp Asp Lys Glu Glu Gln Asp Leu Asp Gln Gln Gly Asn Glu Glu Asn 200 Leu Phe Asp Ser Leu Thr Gly Gln Pro His Pro Glu Asp Val Leu Leu 215 220 Phe Ala Ile Pro Ile Cys Ala Pro Tyr Thr Thr Met Thr Asn Tyr Lys 230 Tyr Lys Val Lys Leu Thr Pro Gly Val Gln Lys Lys Gly Lys Ala Ala 245 250 Lys Thr Ala Leu Asn Ser Phe Met His Ser Lys Glu Ala Thr Ala Arg . 265 Glu Lys Asp Leu Phe Arg Ser Val Lys Asp Thr Asp Leu Ser Arg Asn 275 280 285 Ile Pro Gly Lys Val Lys Ser Val Cys Thr Gln Ser Ser Glu Arg Lys 295 Lys Glu Ile Ala Glu Met Lys Phe 305 310

<210> 582 <211> 3309 <212> DNA <213> Homo Sapiens

<400> 582

cqcagaccga gacccgaggc ggaggcggac cgcgagccgg ccatgteggt ggtggggttg 60 gacgtggget cgcagagetg ctacategeg gtageceggg cegggggeat egagaceate 120 gccaatgagt tcagcgaccg gtgcaccccg tcagtcatat catttggatc aaaaaataga 180 acaatcggag ttgcagccaa aaatcagcaa atcactcatg caaacaatac ggtgtctaac 240 ttcaaaagat ttcatggccg agcattcaat gaccccttca ttcaaaagga gaaggaaaac 300 ttgagttacg atttggttcc attgaaaaat ggtggagttg gaataaaggt aatgtacatg. 360 ggtgaagaac atctatttag tgtggagcag ataacagcca tgttgttgac taagctgaag 420 480 gaaactgctg aaaacagcct caagaaacca gtaacagatt gtgttatttc agtcccctcc 540 ttetttacag atgetgagag gegatetgtg ttagatgetg cacagattgt tggeetaaae tgtttaagac ttatgaatga catgacagct gttgctttga attacggaat ttataagcag 600 gatctcccaa gcctggatga gaaacctcgg atagtggttt ttgttgatat gggacattca 660 getttteaag tgtetgettg tgettttaac aagggaaaat tgaaggtact gggaacaget 720 tttqatcctt tcttaggagg aaaaaacttc gatgaaaagt tagtggaaca tttttgtgca 780 gaatttaaaa ctaagtacaa gttggatgca aaatccaaaa tacgagcact cctacgtctg 840 tatcaggaat gtgaaaaact gaaaaagcta atgagctcta acagcacaga ccttccactg 900 aatatcgaat gctttatgaa tgataaagat gtttccggaa agatgaacag gtcacaattt 960 gaagaactct gtgctgaact tctgcaaaag atagaagtac ccctttattc actgttggaa 1020 caaactcatc tcaaagtaga agatgtgagt gcagttgaga ttgttggagg cgctacacga 1080 attccagctg tgaaggaaag aattgccaaa ttctttggaa aagatattag cacaacactc 1140 1200 aatgcagatg aagcagtagc cagaggatgt gcattacagt gtgcaatact ttccccggca tttaaagtta gagaattttc cgtcacagat gcagttcctt ttccaatatc tctgatctgg 1260 aaccatgatt cagaagatac tgaaggtgtt catgaagtct ttagtcgaaa ccatgctgct 1320, cettteteca aagtteteae etttetgaga agggggeett ttgagetaga agetttetat 1380 totgatocco aaggagttoo atatooagaa goaaaaatag googotttgt agttoagaat 1440 gtttctgcac agaaagatgg agaaaaatct agagtaaaag tcaaagtgcg agtcaacacc 1500 6 catggcattt tcaccatctc tacggcatct atggtggaga aagtcccaac tgaggagaat 1560: gaaatgtett etgaagetga catggagtgt etgaateaga gaccaccaga aaacccagae 1620.cc. actgataaaa atgtccagca agacaacagt gaagctggaa cacagcccca ggtacaaact 1680 gatgeteaae aaaceteaea gteteeeeet teacetgaae ttaceteaga agaaaacaaa 1740 atcccagatg ctgacaaagc aaatgaaaaa aaagttgacc agcctccaga agctaaaaaag 1800 cccaaaataa aggtggtgaa tgttgagctg cctattgaag ccaacttggt ctggcagtta 1860 gggaaagacc ttcttaacat gtatattgag acagagggta agatgataat gcaagataaa 1920 1980 ttggaaaaag aaaggaatga tgctaaaaat gcagttgagg aatatgtgta tgagttcaga gacaagctgt gtggaccata tgaaaaattt atatgtgagc aggatcatca aaattttttg 2040 agactectea cagaaactga agactggetg tatgaagaag gagaggacca agetaaacaa 2100 gcatatgttg acaagttgga agaattaatg aaaattggca ctccagttaa agttcggttt 2160 caggaagetg aagaacggcc aaaaatgttt gaagaactag gacagagget gcagcattat 2220 gccaagatag cagctgactt cagaaataag gatgagaaat acaaccatat tgatgagtct 2280 2340 gaaatgaaaa aagtggagaa gtctgttaat gaagtgatgg aatggatgaa taatgtcatg 2400 aatgctcagg ctaaaaagag tcttgatcag gatccagttg tacgtgctca ggaaattaaa acaaaaatca aggaattgaa caacacatgt gaacccgttg taacacaacc gaaaccaaaa 2460 attgaatcac ccaaactgga aagaactcca aatggcccaa atattgataa aaaggaagaa 2520 gatttagaag acaaaaacaa ttttggtgct gaacctccac atcagaatgg tgaatgttac 2580 cctaatgaga aaaattetgt taatatggac ttggactaga taacettaaa ttggeetatt 2640 ccttcaatta ataaaatatt tttgccatag tatgtgactc tacataacat actgaaacta 2700 tttatatttt cttttttaag gatatttaga aattttgtgt attatatgga aaaagaaaaa 2760 aagettaagt etgtagtett tatgateeta aaagggaaaa ttgeettggt aaettteaga 2820 ttcctgtgga attgtgaatt catactaagc tttctgtgca gtctcaccat ttgcatcact 2880 gaggatgaaa ctgacttttg tcttttggag aaaaaaaact gtactgcttg ttcaagaggg 2940

1 -10070/170/7

<210> 583

<211> 872

<212> PRT

<213> Homo Sapiens

### <400> 583

	-			Arg	2					חר						
				Leu 20					25					2.0	Val	
			33	Gly				40					4 -	Asp		_
		20		Val			ככ					60				
	0.5			Asn		70					75					
				Phe	85					90						Lys
				Asn 100			•		105	•	-			770		
			TTO	Lys			1 355	120		s 2			105			
		450		Thr			·135		0.14 .			140				
	4 2 3			Lys		T20					155					
				Asp	T02					170						
				Asn 180					185					700		
			100	Gly				200					205			
		210		Val			<b>Z T D</b>					224				
-				Ala		230					ンスニ					
				Phe	440					250					~	
				Ala 260					265					270		
			213	Ala				280					205			
		200		Ser			233					200				
				Asp		310					315					
•	-14	oru.	neu	Cys	мта	GIU	ьeu	ьeu	Gln	Lys	Ile	Glu	Val	Pro	Leu	Tyr

```
325
                                   330
Ser Leu Leu Glu Gln Thr His Leu Lys Val Glu Asp Val Ser Ala Val
                               345
Glu Ile Val Gly Gly Ala Thr Arg Ile Pro Ala Val Lys Glu Arg Ile
                           360
Ala Lys Phe Phe Gly Lys Asp Ile Ser Thr Thr Leu Asn Ala Asp Glu
                       375
Ala Val Ala Arg Gly Cys Ala Leu Gln Cys Ala Ile Leu Ser Pro Ala
                                       395
Phe Lys Val Arg Glu Phe Ser Val Thr Asp Ala Val Pro Phe Pro Ile
               405
                                  410
Ser Leu Ile Trp Asn His Asp Ser Glu Asp Thr Glu Gly Val His Glu
           420
                               425
Val Phe Ser Arg Asn His Ala Ala Pro Phe Ser Lys Val Leu Thr Phe
                           440
Leu Arg Arg Gly Pro Phe Glu Leu Glu Ala Phe Tyr Ser Asp Pro Gln
                       455
Gly Val Pro Tyr Pro Glu Ala Lys Ile Gly Arg Phe Val Val Gln Asn
                   470
                                       475
Val Ser Ala Gln Lys Asp Gly Glu Lys Ser Arg Val Lys Val Lys Val
               485
                                   490
Arg Val Asn Thr His Gly Ile Phe Thr Ile Ser Thr Ala Ser Met Val
           500
                              505
Glu Lys Val Pro Thr Glu Glu Asn Glu Met Ser Ser Glu Ala Asp Met
                           520
                                               525
Glu Cys Leu Asn Gln Arg Pro Pro Glu Asn Pro Asp Thr Asp Lys Asn
                       535
Val Gln Gln Asp Asn Ser Glu Ala Gly Thr Gln Pro Gln Val Gln Thr
545, Despety (1987) 198 550 11 124
                                       555
Asp Ala Gln Gln Thr Ser Gln Ser Pro Pro Ser Pro Glu Leu Thr Ser
                                                               Committee Committee Committee
315, 43 (200) 10 1 (4) 565 (Fig. 3)
                                   570
                                                       575
Glu Glu Asn Lys Ile Pro Asp Ala Asp Lys Ala Asn Glu Lys Lys Val
Asp Gln Pro Pro Glu Ala Lys Lys Pro Lys Ile Lys Val Val Asn Val
        595
Glu Leu Pro Ile Glu Ala Asn Leu Val Trp Gln Leu Gly Lys Asp Leu
                       615
Leu Asn Met Tyr Ile Glu Thr Glu Gly Lys Met Ile Met Gln Asp Lys
                    630
                                       635
Leu Glu Lys Glu Arg Asn Asp Ala Lys Asn Ala Val Glu Glu Tyr Val
                645
                                   650
Tyr Glu Phe Arg Asp Lys Leu Cys Gly Pro Tyr Glu Lys Phe Ile Cys
            660
                                665
Glu Gln Asp His Gln Asn Phe Leu Arg Leu Leu Thr Glu Thr Glu Asp
                            680
                                               685
Trp Leu Tyr Glu Glu Gly Glu Asp Gln Ala Lys Gln Ala Tyr Val Asp
                        695
Lys Leu Glu Glu Leu Met Lys Ile Gly Thr Pro Val Lys Val Arg Phe
                 710
                                        715
Gln Glu Ala Glu Glu Arg Pro Lys Met Phe Glu Glu Leu Gly Gln Arg
               725
                                   730
Leu Gln His Tyr Ala Lys Ile Ala Ala Asp Phe Arg Asn Lys Asp Glu
                            745
Lys Tyr Asn His Ile Asp Glu Ser Glu Met Lys Lys Val Glu Lys Ser
                            760
                                                765
```

化多量性 化二氯甲基甲基

30 100 NOVE 1

Harti**di**ta Merician

and the week made to the

Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala Gln Ala 775 780 Lys Lys Ser Leu Asp Gln Asp Pro Val Val Arg Ala Gln Glu Ile Lys 790 795 800 Thr Lys Ile Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val Thr Gln 805 810 Pro Lys Pro Lys Ile Glu Ser Pro Lys Leu Glu Arg Thr Pro Asn Gly 820 825 Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe 840 Gly Ala Glu Pro Pro His Gln Asn Gly Glu Cys Tyr Pro Asn Glu Lys 855 860 Asn Ser Val Asn Met Asp Leu Asp

<210> 584 <211> 2918 <212> DNA <213> Homo Sapiens

870

### <400> 584

ataactggag ctcgcgcgcc tgcaggtcga_cactagtgga_tccaaagaat-tcggcacgag --- 60 gtgacgacaa cagggacaag gactccgaga agaccaagag gtggtccaag cccaggaagc 120 gctccctgat ggagatggag gggaaggagg atgcccttta aggtgctgaa gtgcatgtac 180 tgtggacact cctttgagtc cttgcaggac ctcagcgtcc acatgatcaa aaccaagcat 240 taccagaaag tgcctctgaa ggagccagtg ccagccatca ccaaactggt cccctccacc 300 aaaaageggg egetteagga eetggegeee eeetgeteee etgageeage aggaatggee 360 gcagaggtgg ccctgagtga gtcagccaag gatcagaaag cagcgaaccc gtacgtcacg 420 cccaataacc gctatggcta ccagaatggc gccagctaca cctggcagtt tgaggcccgc 480 aaggegeaga teeteaagtg catggagtgt ggeageteee aegacaeget geageagete 540455 accgcccaca tgatggtcac cgggcacttc ctgaaagtga ccacctcggc ttctaagaag 600 1... 6.6.0 (A) (1.1.1) eccaccacce acacgegget geeggeetee ageateaaaa ageageeega eteteeegeg 720 ......... gggtccacga cttctgaaga aaagaaagag ccagagaagg agaagccgcc tgtggctggc 780 · gacgcggaga agatcaagga ggagagtgag gacagcttgg agaaatttga gcccagcacc 840 .... ctgtacccgt acctgcgtga ggaggacctg gacgacagcc ccaagggagg gctggacatt. 900 . . ctcaagtccc tggagaatac cgtctccacg gccattagca aagctcagaa tggtgcgccc 960 teatggggtg getaccecag catecatgea geetaccage teeegggeac egtgaageca 1020 ctgccggcgg ccgtgcagag cgtgcaggtg cagccgtcct atgctggcgg cgtgaagtcg 1080 etgtetteeg eegageacaa egeceteetg cacteeceag ggageeteac geececaceg 1140 cacaagagca acgtgtctgc catggaggag ctggtggaga aggtcacggg caaggtcaac 1200 atcaagaagg aggagagacc ccctgagaag gagaagagct ccctggccaa ggctgcgtcc 1260 cccatagcaa aagagaataa agatttcccg aaaacggagg aagtcagcgg caaaccacag 1320 aagaagggcc ctgaggccga gacttgggaa gccaaaaagg agggaccgct ggacgttcac 1380 accccaaatg gcacagagcc tctcaaagca aaggtcacca acggctgtaa caacctgggg 1440 atcatcatgg accactcacc ggagcettec ttcatcaacc cgctgagcgc tttgcagtcc 1500 atcatgaaca cccacctggg caaggtgtcc aagcccgtga gtccctcgct ggacccgctg 1560 gegatgetgt acaagateag caacageatg etggacaage eggtgtacee egecacecet 1620 gtgaagcagg cegatgecat egacegetae tattatgaaa acagegacea geceattgae 1680 ttaaccaagt ccaagaacaa gccgctggtg tccagcgtgg ctgattcggt ggcatcacct 1740 ctgcgggaga gcgcactcat ggacatctcc gacatggtga aaaacctcac aggccgcctg 1800 acgcccaagt cetecacgce etecacagtt teagagaagt eegatgetga tggcagcage 1860 tttgaggagg cgttggacga gctgtcaccg gtccacaaga ggaagggccg gcagtccaac 1920 tggaaccege ageacettet cateetgeag geceagtteg cetegagett gegggagace 1980 acagaaggca agtacatcat gtcggacttg ggcccgcagg agagggtgca catctcgaag 2040

	tttactgggc	tctccatgac	caccatcagc	cactggctgg	ccaatgtgaa	gtaccagttg	2100
	aggaggacag	ggggaacgaa	attcctaaag	aacctggaca	cagggcatcc	tgttttcttt	2160
	tgcaacgatt	gtgcctctca	gttcagaact	gcttctacat	acataagtca	tttggagaca	2220
	cacttgggct	tcagcctgaa	ggatctctcc	aagctgccac	tcaatcagat	tcaagaacag	2280
	cagaatgttt	cgaaagtcct	caccaacaaa	actctgggcc	cactgggggc	caccgaggaa	2340
	gacttgggct	ccacattcca	atgtaagctc	tgcaaccgga	cttttgcgaa	gcaagcacgc	2400
	agtcaaactg	caccttagta	agacccacgg	caagtctccc	gaggacçacc	tgatctatgt	2460
	gactgagttg	gagaaacagt	agcgtccagg	tatgcaagag	accgcggaac	attgcactaa	2520
	acgtcgtcga	gctgcactag	gcatggcctg	agcctctgaa	atcagtcttt	cctttgttgc	2580
	tggcccgcct	ctctggacct	tggttttcct	acacatattt	tgtatattta	tatgctttct	2640
	gtccgatctg	tgcatgttat	ttttctttt	ccgtgagtca	aagtctgacc	tttattttca	2700
	acatctgttt	ttggtgttaa	gctatctttt	gtaggaaata	gtggggcaca	ctactcagag	2760
	acattattta	gcagtaaaga	aagacacaaa	taacaatgat	aaaaagacat	cctaaaatgg	2820
_	tgaagttgcc	atgacaataa	aggtcataga	acctggtagt	gtcaaattta	accctttgag	2880
	gactgtaatt	gcatttctgt	gcctttcact	tgaaaaaa			2918

<210> 585 <211> 687 <212> PRT <213> Homo Sapiens

<400> 585

. 埃尔兰美国 在

1985 B. W.

Met Ala Ala Glu Val Ala Leu Ser Glu Ser Ala Lys Asp Gln Lys Ala 5 10 Ala Asn Pro Tyr Val Thr Pro Asn Asn Arg Tyr Gly Tyr Gln Asn Gly 20 Ala Ser Tyr Thr Trp Gln Phe Glu Ala Arg Lys Ala Gln Ile Leu Lys 40 Cys Met Glu Cys Gly Ser Ser His Asp Thr Leu Gln Gln Leu Thr Ala 50 Free 1 55 His Met Met Val Thr Gly His Phe Leu Lys Val Thr Thr Ser Ala Ser 65 ( ) ( ) ( ) ( ) ( ) 7.5 (49)2年10 (40) 1 (47) 80 70 Lys Lys Gly Lys Gln Leu Val Leu Asp Pro Val Val Glu Glu Lys Ile 95 90 Gln Ser Ile Pro Leu Pro Pro Thr Thr His Thr Arg Leu Pro Ala Ser 100 105 Ser Ile Lys Lys Gln Pro Asp Ser Pro Ala Gly Ser Thr Thr Ser Glu 120 Glu Lys Lys Glu Pro Glu Lys Glu Lys Pro Pro Val Ala Gly Asp Ala 135 140 Glu Lys Ile Lys Glu Glu Ser Glu Asp Ser Leu Glu Lys Phe Glu Pro 150 155 Ser Thr Leu Tyr Pro Tyr Leu Arg Glu Glu Asp Leu Asp Asp Ser Pro 170 175 165 Lys Gly Gly Leu Asp Ile Leu Lys Ser Leu Glu Asn Thr Val Ser Thr Ala Ile Ser Lys Ala Gln Asn Gly Ala Pro Ser Trp Gly Gly Tyr Pro 200 Ser Ile His Ala Ala Tyr Gln Leu Pro Gly Thr Val Lys Pro Leu Pro 215 220 Ala Ala Val Gln Ser Val Gln Val Gln Pro Ser Tyr Ala Gly Gly Val 230 235 Lys Ser Leu Ser Ser Ala Glu His Asn Ala Leu Leu His Ser Pro Gly 250 Ser Leu Thr Pro Pro Pro His Lys Ser Asn Val Ser Ala Met Glu Glu

```
260
                                                                                               265
Leu Val Glu Lys Val Thr Gly Lys Val Asn Ile Lys Lys Glu Glu Arg
                                                                                     280
Pro Pro Glu Lys Glu Lys Ser Ser Leu Ala Lys Ala Ala Ser Pro Ile
                                                                         295
                                                                                                                                      300
Ala Lys Glu Asn Lys Asp Phe Pro Lys Thr Glu Glu Val Ser Gly Lys
 305 310 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320 --- 320
Pro Gln Lys Lys Gly Pro Glu Ala Glu Thr Trp Glu Ala Lys Lys Glu
                                                325
                                                                                                             330
Gly Pro Leu Asp Val His Thr Pro Asn Gly Thr Glu Pro Leu Lys Ala
                                                                                                 345
Lys Val Thr Asn Gly Cys Asn Asn Leu Gly Ile Ile Met Asp His Ser
                                                                                     360
Pro Glu Pro Ser Phe Ile Asn Pro Leu Ser Ala Leu Gln Ser Ile Met
                                                                         375
                                                                                                                                      380
Asn Thr His Leu Gly Lys Val Ser Lys Pro Val Ser Pro Ser Leu Asp
                                                                                                                          395
Pro Leu Ala Met Leu Tyr Lys Ile Ser Asn Ser Met Leu Asp Lys Pro
                                                405
                                                                                                             410
Val Tyr Pro Ala Thr Pro Val Lys Gln Ala Asp Ala Ile Asp Arg Tyr
                                                                                                 425
Tyr Tyr Glu Asn Ser Asp Gln Pro Ile-Asp-Leu-Thr-Lys Ser Lys Asn
                        435
Lys Pro Leu Val Ser Ser Val Ala Asp Ser Val Ala Ser Pro Leu Arg
                                                                         455
Glu Ser Ala Leu Met Asp Ile Ser Asp Met Val Lys Asn Leu Thr Gly
                                                            470
                                                                                                                        475
Arg Leu Thr Pro Lys Ser Ser Thr Pro Ser Thr Val Ser Glu Lys Ser
                                               485 (4.92) No. 38 (4.90)
Asp Ala Asp Gly Ser Ser Phe Glu Glu Ala Leu Asp Glu Leu Ser Pro
                                    500
                                                            가 선생님(의원 505
Val His Lys Arg Lys Glý Arg Gln Ser Asn Trp Asn Pro Gln His Leu
                        515 (4年 新報報 520 年 520 年 525 年 
Leu Ile Leu Gln Ala Gln Phe Ala Ser Ser Leu Arg Glu Thr Thr Glu
                                                                   535
Gly Lys Tyr Ile Met Ser Asp Leu Gly Pro Gln Glu Arg Val His Ile
                                                            550
                                                                                                                          555
Ser Lys Phe Thr Gly Leu Ser Met Thr Thr Ile Ser His Trp Leu Ala
                                                565
                                                                                                             570
Asn Val Lys Tyr Gln Leu Arg Arg Thr Gly Gly Thr Lys Phe Leu Lys
                                    580
                                                                                                 585
Asn Leu Asp Thr Gly His Pro Val Phe Phe Cys Asn Asp Cys Ala Ser
                                                                                     600
Gln Phe Arg Thr Ala Ser Thr Tyr Ile Ser His Leu Glu Thr His Leu
                                                                        615
Gly Phe Ser Leu Lys Asp Leu Ser Lys Leu Pro Leu Asn Gln Ile Gln
                                                            630
                                                                                                                         635
Glu Gln Gln Asn Val Ser Lys Val Leu Thr Asn Lys Thr Leu Gly Pro
Leu Gly Ala Thr Glu Glu Asp Leu Gly Ser Thr Phe Gln Cys Lys Leu
                                    660
                                                                                                 665
Cys Asn Arg Thr Phe Ala Lys Gln Ala Arg Ser Gln Thr Ala Pro
                                                                                     680
```

<210> 586

<211> 1898 <212> DNA

<213> Homo Sapiens

### <400> 586

ecgeettggg teageetget eccetgette etgeegeagt gggggeegte ageetggeea 60 ceteceaget eccaageeca eccetgggge ecacegteec eccaeageea eccteggeec 120 tqqaqtcqqa tggggaaggg ccgccccca gggtgggctt tgtggacagc accatcaaga 180 qcctggacga naagctgcgg actctgctct accaggagca cgtgcccacc tcctcagcct 240 caqctqqqac ccctgtggag gtgggcgaca ganacttcac cctggagccc ctgagagggq 300 accageceeg eteanaggte tgegggggg acctggeeet geeceaagtg eetaaggagg 360 eggteteagg gegtgteeag etgeeceage cettggtgga gaagteagaa etggeeceea 420 ctcqaqqqqc cgtgatggag cagggcacgt cctcgtcaat gacagagtcg tctcccagga 480 gtatgetagg ctatgacaga gatggaagge aggtggeete agaeteeeat gtggteeeea 540 gegteececa ggatgtaeet gettttgtga gaeetgeaeg tgtgganeee acanacaggg 600 atqqtqqana agctgganaa agctcggcan agcccccgcc gagtgacatg ggcannqtgq 660 ggggccaggc tagccacccc cagacactcg genetegagc ttttggggtcc ceteggaanc 720 qtccagatca ccaggatgte agetcaccag ccaagactgt gggccgttte tcggtggtca 780 quactuagga egagtggace etggeeteec eccacageet gagatactet geeccaceeq 840 acqtctacct ggacgaggcc ccctccagcc ccgacgtgaa gctggcagtg cggcgggcgc 900 agacqqcctc ctccatcgag gtcggcgtgg gcgagcccgt gtccagcgac tctqqqqacq 960 agggccctcg ggcgagaccc ccggtgcaga agcaggcgtc cctgcccgtg agtggcagcg 1020 tggctggcga cttcgtgaag aaggccaccg cttcctgcag aggccttctc gggccggctt 1080 egetgggeee egagacacce ageagggtgg geatgaaggt eeceaegate agegtgaeet 1140 ccttccattc ccagtcgtcc tacatcagca gcgacaatga ttcggagctc gaggatgctg 1200 acataaagaa ggagctgcan agtctgcggg agaagcacct gaaggagatc tcggagctgc 1260 agagecagea gaageaggag ategaagete tgtneegeeg cetgggeaag ceaetgeeee 1320 ccaacgtggg cttcttccac acggcacccc ccactggccg ccgganaaaa accancaaga **1380** neaagetgaa, ngcaggcaag ctgctaaatc coctggtgcg gcagetcaag gtcgtggcct: Accatg40.gaa/46/3-44/ eccaacacaqq@ccacttggct gactccanca naagccctcc cgctaangac ctqcccnaqc@c@bb500agc@cac.... cagtgtgggg ctcactgcan acaacacggg cctgaacggg aangcagtgc anaccancan 🗼 🦸 560gg j 🎋 🧀 igoggaacgog tingneaangg tootocacca acaacctggo coaggootga accaagoocc : 治療養680食物 [[[aa]][[[i]]] accegectg:caegtecaag egeangtgaa caacancaac nacaagaaag gttettenee 1740 qacqaactqc acaanctggt ggacnaatgg acaacaanan ngtggggggc gcgcactqaa 591800 to 10 1 1 1 1 1 acccaencte nacccetnaa nennaacene aacttecana cattgaggee egeaggtggg 1860 ctgccctggc naagcccggc tttnaccccc ctccaaca 1898

<210> 587

<211> 399

<212> PRT

<213> Homo Sapiens

### <400> 587

YY W フフ/ひつかいご

85

```
90
Gly Asp Gln Pro Arg Ser Val Cys Gly Gly Asp Leu Ala Leu Pro Pro
                                105
Val Pro Lys Glu Ala Val Ser Gly Arg Val Gln Leu Pro Gln Pro Leu
                            120
                                               125
Val Glu Lys Ser Glu Leu Ala Pro Thr Arg Gly Ala Val Met Glu Gln
                       135
                                   - --
                                           140
Gly Thr Ser Ser Ser Met Thr Glu Ser Ser Pro Arg Ser Met Leu Gly
                   150
                                       155
Tyr Asp Arg Asp Gly Arg Gln Val Ala Ser Asp Ser His Val Val Pro
               165
Ser Val Pro Gln Asp Val Pro Ala Phe Val Arg Pro Ala Arg Val Pro
                                185
Thr Arg Asp Gly Gly Ala Gly Ser Ser Ala Pro Pro Pro Ser Asp Met
                            200
                                               205
Gly Val Gly Gln Ala Ser His Pro Gln Thr Leu Gly Arg Ala Leu
                       215
Gly Ser Pro Arg Pro Asp His Gln Asp Val. Ser Ser Pro Ala Lys
                   230
                                       235
Thr Val Gly Arg Phe Ser Val Val Ser Thr Gln Asp Glu Trp Thr Leu
                                   250
                                                       255
Ala Ser Pro His Ser Leu Arg Tyr Ser Ala Pro Pro-Asp-Val-Tyr Leu-
           260
                               265
Asp Glu Ala Pro Ser Ser Pro Asp Val Lys Leu Ala Val Arg Arg Ala
                           280
                                               285
Gln Thr Ala Ser Ser Ile Glu Val Gly Val Gly Glu Pro Val Ser Ser
                       295 、
Asp Ser Gly Asp Glu Gly Pro Arg Ala Arg Pro Pro Val Gln Lys Gln
                   310
                                     9 315 Bhilleadaga - - 7 320
Ala Ser Leu Pro Val Ser Gly Ser Val Ala Gly Asp Phe Val Lys
                                   330
Ala Thr: Ala Ser Cys Arg Gly Leu Leu Gly Pro Ala Ser. Leu Gly Pro
                                                                   340
                                    ეგან<sub>ფა</sub>ვ3,50 . . .
                               345
Glu Thr Pro Ser Arg Val Gly Met Lys Val Pro Thr Ile Ser Val Thr
     . 355
                           360
                                            365
Ser Phe His Ser Gln Ser Ser Tyr Ile Ser Ser Asp Asn Asp Ser Glu
Leu Glu Asp Ala Asp Ile Lys Lys Glu Leu Ser Leu Arg Glu Lys
385
     <210> 588
      <211> 707
      <212> DNA
      <213> Homo Sapiens
     <400> 588
agatggcgcc tgttgtgaca gggaaatttg gtgagcggcc tccacctaaa cgacttacta
                                                                      60
gggaagctat gcgaaattat ttaaaagagc gaggggatca aacagtnctt attcttcatg
                                                                     120
caaaagttgc acagaagtca tatggaaatg aaanaaggtt tttttgccca cctccttgtg
                                                                     180
tatatettat gggcantgga tggaagaaaa aaaangaaca aatggaacge gatggttgtt
                                                                     240
ctgaacaaaa gtctcaaccg tgtgcattta ttgggatagg aaatagtgac caaaaaatgc
                                                                     300
agcagctana cttggaagga aagaactatt gcacagccaa aacattgtat atatctgact
                                                                     360
cagacaageg aaageaette atgttgtetg taaagatgtt etatggeaae agtgatgaea
                                                                     420
ttggtgtgtt cctcagcaag cgaataaaag tcntctccaa accttccaaa aagaacagtc
                                                                     480
attgaaaaat gctgacttat gcattgcctc angaacaaag gtggctctgt ttaatcgact
```

acnatecean acagttagta ecagataett geatgttana aggaggtnat ttteatgeea 600 gttcacagen gtggggagee ttttttatte anetettgga tgatgatgan teenaaggag 660 aagaattcac ngtccgagat ggctacatcc attatggaca aacagtc 707 <210> 589 <211> 551 <212> DNA <213> Homo Sapiens <400> 589 actgtggctt ctgcatttca aatcagcact tgcagggaga caacggggtt tttgaatagt 60 atcacctggt atgaaaagtt ttcccaagaa accacaaacg attgttcatt ttttctcctt 120 ttttgttaac tttttgccac actcaagtca gtttaagtcc tagcaaaaag acggtagtta 180 qqataccact gtggctgtan atgatgtgac actggttgaa tttgtgctgg cgtttgtgta 240 acttccctcg ctqtttgtgt ttgattcgtt agggggcacc tggcttgaat tggctcgaag 300 gattgctcct gctgcactgc aatgtggccg cggccctggt tctggtgtgt angtaaaggt 360 aaggetggtg gaataaatga ttecaceatt teggaceaaa gttactggaa cetggactgg 420 ttqccqqacc catctccaac cttctcggaa tgcanaaatg tctgggacga cacagaacat 480 acctetecae acctgtaeat aattteaget tetacateee caaaccaeac tegtaaattt 540 551 ggantnaaaa t <210> 590 <211> 478 <212> DNA <213> Homo Sapiens <400> 590 actqtqqctt ctqcatttca aatcagcact tqcagggana caacggggtt tttqaatagt 60 atcacctggt atgaaaagtt ttcccaagaa accacaaacn attgttcatt ttttctcctt 120 ttttgttaac ttttngccac actcaantca gtttaagtcc tagcaaaaan acggtagtta 180 ggataccact gtggctgtaa atgatntgac actggttgaa tttgtgctgg cgtttgtgta 240 actteceteg etgtttgtgt ttgattegtn agggggeace tggettgaat tggetegaag 300 gattgeteet getgeactge aatgrggeeg egggeetgnt tettatnigt igtaaangin 360 aggntggtgg aataaatgat tccatcatnt cggancgaag ttgctgggaa ctggganngg 420 tngneggaac cateteegac enceeggaaa ngcagaagtg ttngtggnag aceggaac 478 <210> 591 <211> 707 <212> DNA <213> Homo Sapiens <400> 591 actytygctt ctycatttca aatcagcact tycaggyaga caacgygytt tttgaatagt 60 atcacctggt atgaaaagtt ttcccaanaa accacaaacg attgttcatt ttttctcctt 120 ttttgttaac tttttgccac actcaantca gtttaantcc tancaaaaag acggtagtta 180 ggataccact gtggctgtaa atgatgtgac actggttgaa tttgtgctgg cgtttgtgta 240 actteceteg etgittgtgt ttgattegtt agggggeace tggettgaat tggetegaag 300 qattgctcct gctgcactgc aatgtggccg cggccctggt tctggtgtgt aggtaaaggt 360 aaggetggtg gaataaatga tteeateatt teggaccaaa gttaetggaa eetggactgg 420 ttgccggacc catctccaac cttctcggaa tgcagaaatg tctgggacga cacagancat 480 actototoca cacotytaca taytttongo ttotacatoo coaaaccaca otogtaaatt 540 tggantgaaa ttctgtcctg taagttcaag cattnctacg tccccacccg ccatttcaac 600 tgaaaggctc tctaccacan ggnacaggaa atgactgggg caaggacagg gcccattccc 660

** W /// UTMUJ

707

tcattaaatg tnatactccg ccttatcngt cctaaangaa tgtncaa

```
<210> 592
           <211> 541
            <212> DNA
           <213> Homo Sapiens
           <400> 592
ggtaaacttt tggccacnen caatteantt taatteetae caaaaaaaeg gtatttagna----- 60
tnccnctgtg gctgtaaata atttaacnct ggttaaattn ntnctggctt tngtntanct
                                                                                                                                   120
ecececetn tingtittin atcentiagg gggeacetgn ettnantngg encaaaggat
                                                                                                                                   180
ngcccctgct gcantgcaat ttggccncgg ccctggtcct ggtttntagg taaaggtaag
                                                                                                                                   240
genggtgnaa taantaatee caccattneg naccaaattt actgnaacet gaaenggttg
                                                                                                                                   300
cegnacecan enceanceth enegaaatge aaaantttet ggnacaache aaacentach
                                                                                                                                   360
enenceacce etntnentat tineagetne taenteecca aaccacaene ntaaatingn
                                                                                                                                   420
attaaaatcc tntcctgtaa ttccaagcat ggctacttcc ccaccgccat tcaactnaag
                                                                                                                                   4.8.0_
gecenetace acaggeneag nattaantgg ggeaaggaaa gggeecatee eeccataaaa
                                                                                                                                   540
t
                                                                                                                                   541
           <210> 593
           <211> 605
           <212> DNA
           <213> Homo Sapiens
           <400> 593
actgtggctt ctgcatttca aatcagcact tgcagggana caacggggtt tttgaatant
atcacctggt atgaaaagtt ttcccaanaa accacaaacn antgttcatt tttnctcctt
                                                                                                                                   120
ttttgttaac tttttgccac actcaantca gtttaantcc tagcaaaaaa acggtagtta
                                                                                                                                   180
ggataccact gtggctgtaa atgatgtnac actggttgaa tttgtgctgg cgtttgtgtn
                                                                                                                                   240.
acticecteg etgtttgtgt ttgattegtt agggggeace tggettgaat tggetegaan
                                                                                                                              3.00
gattgetect getgeactge aatgtggeeg eggeeetggt tetggtgtgt aagtaaaggt sigg@@det messer
aaggotggtg gaataaatga ttccntcatt tcggancaaa gttactggaa cctggantgg
ttgndggacc atctccaacc ttctcggaat gcanaaatgt ctgggacaan acnnaacata atg1480 acc a
cededicided acctggted tantiticage tectacated eccaaaceae actentaaat 47005400888 9000 1000
ttiggantgaa attictgteet gttaatteaa acattgetae gteecenceg ceatteaact (86460.00) a strong
gaaag
                                                                                                                               .....605
   Section of the Sectio
                                                                                                                                 Section 18
           <210> 594
           <211> 666
           <212> DNA
           <213> Homo Sapiens
           <400> 594
gaagagtttg tggaagatgg cgcctgttgt gacagggaaa tttggtgagc ggcctccacc
                                                                                                                                     60
taaacgactt actagggaag ctatgcgaaa ttatttaaaa gagcgagggg atcaaacagt
                                                                                                                                    120
acttattctt catgcaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg
                                                                                                                                   180
cccacctcct tgtgtatatc ttatgggcag tggatggaag aaaaaaaaag aacaaatgga
                                                                                                                                    240
acgcgatggt tgttctgaac aagagtctca accgtgtgca tttattggga taggaaatag
                                                                                                                                   300
tgaccaagaa atgcagcagc taaacttgga aggaaagaac tattgcacag ccaaaacatt
                                                                                                                                    360
gtatatatct gactcagaca agcgaaagca cttcatgttg tctgtaaaga tgttctatgg
                                                                                                                                    420
caacagtgat gacattggtg tgttcctcan caagcggata aaagtcatct ccaaaccttc
                                                                                                                                    480
caaaaagaac agtcattgaa aaatgctgac ttatgcattg cctcaggaac aaaggtggct
                                                                                                                                    540
ctgtttaatc gactacgatc ccagacagtt ngtaccagat acttgcatgt anaaggaggt
                                                                                                                                    600
aattttccat gccagttccc accagtgggg agcctttttt attcnctctt gggatgatga
                                                                                                                                    660
tgaatc
                                                                                                                                    666
```

<210> 595

<211> 600 <212> DNA <213> Homo Sapiens <400> 595 gccacactca agtcagttta agtcctagca aaaagacggt agttaggata ccactgtggc 60 tqtanatgat gtgacactgg ttgaatttgt gctggcgttt gtgtaacttc cctcgctgtt 120 tgtgtttgat tegttagggg geaectgget tgaattgget egaaggattg etectgetge 180 actgcaatgt ggccgcggcc ctggttctgg tgtgtaggta aaggtaaggc tggtggaata 240 aatqattcca tcatttcgga ccaaagttac tggaacctgg actggttgcc ggacccatct **⊲ 300** ccaacettet eggaatgeag aaatgtetgg gaegaeaeag aneataetet etecaeaeet 360 gtacatagtt tcagcttcta catccccaaa ccacactcgt aaatttggag tgaaattctg 420 tectgtaagt teaageattg etaegteece acegecatte aactgaagge tetetaceae 480 aggcacagga atgactgggg caaggacagg gcccattccc tncataaaat gtntaatttg 540 gggncaantg tggcccccaa cccccccca aagggcatna tttaacnccn ctttaattgg 600 <210> 596 <211> 835 <212> DNA <213> Homo Sapiens <400> 596 actgtggctt ctgcatttca aatcagcact tgcagggaga caacggggtt tttgaatagt 60 atcacctggt atgaaaagtt ttcccaanaa accacaaacn attgttcatt ttttctcctt 120 ttttgttaac tttttgccac actcaantca gtttaagtcc tagcaaaaan acggtagtta 180 ggataccact gtggctgtaa atnatgtgac actggttgaa tttgtgctgg cgtttgtgta 240 actteceteg etgtttgtgt ttgattegtt agggggeace tggettgaat tggetegaag 300 gattgeteet getgeactge aatgtggeeg eggeeetggt tetggtgtgt aggtaaaqqt 360 aaqqetqqtq qaataaatqa ttecatcatt teggaccaaa qttactqqaa cetqqactqq 420 が治し、ttgccggacc catctccaac cttctcggaa tgcagaaatg: tctgggacga cacanancat. 480 🖫 Acteteteca cacetgtaca tagitteage tietacatee ecaaaceaca etegiaaatt 🦠 540 tggagtgaaa ttetgteetg taagtteaag cattgetaeg teeccaeege catteaaetg 600 👫 👉 🗷 aaggeeteta eacaggeaca ggaatgaetg gggeääggan! agggeecatt eecteataaa. 660 atqtatactc tqccttatct gtgctaatga ttgtccagga aacgccanca ttttaccacc 720 tenttattgg ttettttggg antggaatgg cetgaaattg aaatattett cettgaaaaa 780 aggccaaata entettetgt tteettnaag ggtaaaatge ceatttttgg aattg 835 <210> 597 <211> 443 <212> DNA <213> Homo Sapiens. <400> 597 ageagttega atgecaggaa aetgetegag tgecaggtge aggtggggge eecegaqqaq gaggaggagg aggaggagga cgcgggcctg gtggccgagg ccgangccgt ggctgccggc tggatgeteg attteetetg cetetetet tgeegagett teegenaegg eegeteegag gacttccncn ggaccegcaa cagegcanag gctattattc atggactatc cagtctaaca

60 120 180 240 gcttgccagt gagaacgata tacatatgtc agtttttgac aagaattgca gcaggaaaaa 300 cccttgatgc ncagtttgaa aatgatgaac gaattacacc cttggaatcn gccctgatga 360 tttggggttc aattgaaaag gaacatgacn aacttcntga agaaatacag aatttaatta 420 aaattcangc tatngctgtt tgt 443

<210> 598 <211> 491

<212> DNA

#### エースノンロノロノスマンノノ

4. 经现金额债金

·新文学学事品:

15年10年12月1日

但可以是我们

并且抗疫激烈。

### <213> Homo Sapiens

```
<400> 598
gtactttgag gagttcctac tcttctttct ttcttattaa ggtcttgttg ctgggttcca
 tgttgcaact tagataanaa aagattettg tgagacetea ataaggatae tgtaceetet
                                                                         60
                                                                        120
gaggattcag ttaccgcaga ctgtttgtca ctaacacttt ttcttgtatc caaattagct
tcagtttcca tttcaacatc attaccacta ggtttatctt gagaagttat tgttcttgtc
                                                                        180
cttttgcttt ctactacttt tgccgctgcc ttcattagaa aggttgatga tttttcactt
                                                                       240
agcacataat tcacataact cttaattttc tccatcatgt ggttgtagct gaagtgttga
                                                                        300
aaaaaggaat gaaatgtatc tttctgagan attatcataa gcaatttgct tttgaaaggc
                                                                        360
atatgagaat ttggatcacc aaatattett tcaaagaett ettetgette tttaaagttg
                                                                        420
                                                                        480
 ccattttcca t
                                                                       491
      <210> 599
      <211> 802
      <212> DNA
      <213> Homo Sapiens
      <400> 599
gtactttgag gagttcctac tcttctttct ttcttattaa ggtcttgttg ctgggttcca
tgttgcaact taaataagaa aagattettg tgagacetca ataaggatae tgtaceetet
                                                                        60
gaggattcag ttaccgcaga ctgtttgtca ctaacacttt ttcttgtatc caaattagct
                                                                       120
tcagtttcca tttcaacatc attaccacta ggtttatctt gagaagttat tgttcttgtc
                                                                       180
cttttgcttt ctactacttt tgccgctgcc ttcattagaa aggttgatga tttttcactt
                                                                       240
agcacataat tcacataact cttaattttc tccatcatgt ggttgtagct gaagtgttga
                                                                       300
aaaaaggaat gaaatgtatc tttctgagag attatcataa gcaatttgct tttgaaaggc
                                                                       360
atatgagaat ttggatcacc aaatattett tcaaagaett ettetgette tttaaagttg
                                                                       420
ccattttcca tacaaacagc tatagcctga attttaatta aattctgtat ttcttcatga
                                                                       480
agtttgtcat gttccttttc aattgaaccc caaatcatca gggctgattc caanggtgta
                                                                       540
attogttcat cattttcaaa ctgtgcatca agggtttttc ctgctgcaat tcttgtcaaa
                                                                       600 ·
aactgacata tgtntatcgt tetcaactgg cnagectgtt aaactggaaa atccatgaat
                                                                       660 ::
aataacctct ggcgctgttg cgggtcctgc ggaaattcen cggaaccggc cgtcncggaa
                                                                       720:. .:
                                                                       780:
aactengcaa aagaaaaaaage ....
                                                                       802 ...
      <210> 600: x = 1.1.
      <211> 523
      <212> DNA
      <213> Homo Sapiens
      <400> 600
gaaaagcaac ttttattgaa naatttggag ggaaggttcc atattatatt ataatagtaa
aaatactaaa gttgaatgtt gtaaaaaaac neegtggtge ageggeageg geagegtetg
                                                                        60
gccaggaggc gtggagggc ccagggatgg ccacccccac agggagtcag ggagggcctg
                                                                       120
gggcgacagc ggaaaggtta agcgtcnaaa aggtcaagtg ctaccgtgga naaatcatct
                                                                       180
gagggggagg ctcccggtgg gacagtcacc aanaactgtn acacacaagg ggaagggga
                                                                       240
gggctttcct gtcacaaana ttaaaaaccc ccnaaatgca tttgaacaac atnatacacn
                                                                       300
ataacaaatt taaaccttgc tcctctgtcc cactgggtna accctggccc atcccccatc
                                                                       360
cctggtccca tcccaggggc ccagcctccg atnactcctc anaaacacng ccttnntgct
                                                                       420
ggggggctgc tgtntncctg ccaccccnn gaaaaggtgc tgg
                                                                       480
                                                                       523
      <210> 601
      <211> 530
      <212> DNA
```

<213> Homo Sapiens

```
<400> 601
         aaaaccaact tttattgaaa aatttggagg gaaggtncca tnttatntta taatantaaa
                                                                                    60
         aatactaaat ttaaattttn taaaaaaacc contgntgca coggcanogg cancttotgg
                                                                                   120
         ccaaaangct tnaaggggcc cagggatngc cncccccnca gggattcngg gagggcctgg
                                                                                   180
         ggcaanancg naaaggttaa contonaaaa ggtcaattno taccgtgnaa aaatnatotn
                                                                                   240
         agggggangc tcccggtggg acactccccn aaaactntna cccaaaaggg gaagggggaq
                                                                                   300
         ggctttcctn tnncaaaaat tnaaanccc cnaaatgcct ttnaacnact ttntncccan 360
         tnncaatttt naacettgen cetetnteee actgggtnaa ceetggeeca teececatee
                                                                                   420
         etgqtccent ccenggggcc cacceccena taacttcctc aaaaacenge ettnttnetq
                                                                                   480
         gggggctgct nttttcttcc cccccaana aaaggtnctg gccccctcc
                                                                                   530
                <210> 602
                <211> 311
                <212> DNA
                <213> Homo Sapiens
                <400> 602
         geenaneagg naneegeege tgaageeace geegggtgee cagegeegee geegeeeeeq
                                                                                    60
         ageteeceeg egeceetgee enegggeggn eggtgggeae egggegeeat ggeegegeeg
                                                                                   120
         ggancegetg eggntnegen tgtgeenett ggtgenegga anancangge taengnttet
                                                                                   180
         acctntacgt gtgananngg ccgccgcggg cacttentcc ggcgcgtgna nectctgttc
                                                                                   240
         cccegcegag gengeegege tgtgetetgg ggatetnetg ntenaggtea aentgentea
                                                                                   300
         acgtgnaggg c
                                                                                   311
                <210> 603
                <211> 289
                <212> DNA
                <213> Homo Sapiens
     Colorian barrinada e dale
                     1 371 1
प्रमान्त्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेलेक्क्ष्रिकेले
                                                                  · 在一个的原子的基本数据的方式的一块。
| 1987 | Marking granagaaag gtttgtttta, ttgcaattat ttaaatchog toocangggg gaggggaagg + 1877 60.
 a maganigggangggaa ggggggggtnotetggtnttn attngatnee tgtetgeean ettnnaeate 👵 🖘 120 🖂
. Marketeles tathangaan anaaccatca nonchontoo otttoantoa totggonoot goanaccato ... #1180//-
       tttegecete tneececege tgeteteena etecentgae eneteteate teteteenet
        ctgnetecte netetniete teatitetet gitneaenet etetecee
                <210> 604
                <211> 356
                <212> DNA
                <213> Homo Sapiens
                <400> 604
          etgaagecae egeegggtge ceagegeege egeegeeeee gageteeeee gegeeeetge
                                                                                     60
          eegegggegg eeggtgggea tegggegeea tggeegenee gganeegetg eggeegegee
                                                                                  ·<sub>~</sub> 120
          tgtgccgctt ggtgcgcgga nagcanggct acggcttcca cctgcacqqt gaqaanqqcc
                                                                                    180
          qeeqeqqqea ntteateegg egegtggaac eeggtteece egeeqaqqee neeqenetqe
                                                                                    240
          gegetgggga cegentgnte naggtenaen gegteaacnt ggagggegat accacencet
                                                                                    300
          ngtgntgent acgatenang etgtngangg geanactegg etgetggtgg tggace
                                                                                    356
                <210> 605
                 <211> 290
                 <212> DNA
```

<400> 605

<213> Homo Sapiens

```
gcaaagaang gtttgtntta ttgcaattat ttanagcgcg tcccaagggg gaggggangg
                                                                          60
 gggangggaa gggggggtn tcttgctana aactggaaac ntgtttctta ccccnatntc
 nnantegaet necaceaact gtnnntette etteetttee enangteeet anntacence
                                                                         120
                                                                         180
 tnttgeeett etneecettn ttteeceten egettteeet nactetttat etntettnte
                                                                         240
 ctetetetet etcacetett tetececete cetteaenet caentigtet
                                                                         290
        <210> 606
       <211> 714
       <212> DNA
       <213> Homo Sapiens
       <400> 606
 cgccagaaaa agttatttta attttctatt aaacattctt ctcaaagcat tattttatcc
 tatateteae tgaattttaa gaaataaeat tagtattaga aaaaetagga aaaaagataa-
                                                                          60
                                                                         1-2-0-
 atgcagataa ttaaacttac atgaaaaagg aaaattataa caaaggactg agaacgttat
                                                                         180
 aaattgaaat gagattataa tttgaaaact gcatctgaaa gcaaacttta ttgttcaatt
 atnottaatg atggtgtttt atgactaata cactgatttt tcaagaagga aacccatgtt
                                                                         240
                                                                         300
 aaaaatattt ttattttaaa aataagcctg tgttcaagct ctgatcatat ttcttttatt
                                                                         360
 ttgatttggg aanaaatac tgtttctgat agcatgaaat gcaaaatttt tagattttta
                                                                         420
 atctcactaa ttttaanaac tattgagaaa ttgattaatg acatgaagtg cacaacacta
 attactggcc agctgttggc attgtgtttc ttacttagtt ctcccaaggg aaaactctta
                                                                         480
                                                                         540
 aattgaatct tcagcagaat aatccttaaa tatactttgt aagcaaaaca aaagcttttt --- 600
 tgtttacata gttctttggg attttactgt tcctaatttt attctgaaac tcaatttac
                                                                         660
 cecagaecat aattaccata ttaactttgt tntgcacagt tgtttgccaa ttca
                                                                         714
       <210> 607
       <211> 687
       <212> DNA
 <213> Homo Sapiens
                                                                     人名克特尔克莱斯 研究 医皮肤炎
 The of the first of a great war and the state of the state of the
                                                                      5000 (1980) (1980) (1980) (1980) (1980)
 ુજાઈ કેટ્ટેડ<4,00>્607 ક્
                                                                      TO SERVENCE SECTION
attitaatti tetattaaac attettetea aageattatt tiateetata teteaetgaa noomin on halland
. btttaanaaa taacattagt attagaaaaa ctaggaaaaa agatnaatgc agataattaa 1990 120 gg 1994 199
 acttacatga aaaaggaaaa ttataacaaa ggactgagaa cgttataaat tgaaatgaga
                                                                        180/4
 ttataatttg aaaactgcat ctgaaagcaa actttattgt tcaattattc ttaatgatgg
                                                                       240
 tgttttatga ctaatacact gatttttcaa taaggaaacc catgttaaaa atattttat
                                                                         300
 tttaaaaata agcctgtgtt caagctctga tcatatttct tttattttga tttgggaaga
                                                                         360
 aaatactgtt tetgatagca tgaaatgcaa aatttttaga tttttaatet enetaatttt
                                                                         420
 aagaactatt gagaaattga ttaatgacat gaagtgcaca acactaatta ctggccagct
                                                                         480
 gttggcattg tgtttcttac ttagttctcc caaggaaaac tcttaaactg aatcttcagc
 ngaataacct taaatatact ttgttagcca aacaaaactt ttttgtttac atagttcttt
                                                                         540
                                                                         600
 ggattttact gttcctaatt ttattctgaa actccatttt tccccagacc ataattaccc
                                                                         660
 tatttaactt tgttatgcac agttgtt
                                                                         687
       <210> 608
       <211> 994
       <212> DNA
       <213> Homo Sapiens
       <400> 608
 ctcacccagt tgctcctcag atgtttgggt atgctggaaa agaacatatg gaaaaatatg
                                                                          60
 gaacaaaaat tgaacacttt gcaaaaattg gatggaaaaa tcataaacat tcagttaata
                                                                         120
 acccgtattc ccagttccaa gatgaataca gtttagatga agtgatggca tctaaagaag...
                                                                         180
 tttttgattt tttgactatc ttacaatgtt gtcccacttc agatggtgct gcagcagcaa
 ttttggccag tgaagcattt gtacagaagt atggcctgca atccaaagct gtggaaattt
                                                                         240
```

TT U 77/107803 X CX10070137017

```
tqqcacaaga aatgatgact gatttgccaa gctcgtttga agaaaaaagc attattaaaa
                                                                      360
tggttggctt tgatatgagt aaagaagctg caagaaaatg ctatgagaaa tctggcctga
                                                                      420
caccaaatga tattgacgta atagaacttc acgattgctt ttctaccaac gaactcctta
                                                                      480
                                                                      540
cttatgaage actgggacte tgteeagaag gacaaggtge aaegetggtt gatagaggag
ataatacata tggaggaaag tgggtcataa atcctagtgg tggactgatt tcaaagggac
                                                                      600
acccactagg cgctacaggt cttgctcagt gtgcagaact ctgctggcag ctgagagggg
                                                                       660
aaqccqqaaa agaggcaaag ttcctggtgc aaaggtggct ctgcngcata atttangcat
                                                                       720
tggaggaact gtggttgtaa cactctacaa gatggggttt tcccggaagc cgccagttcc
                                                                       780
ttttaqaact catcaaaatt gaagccngtt ccaaccaagc tctgcaagtn atnggtttaa
                                                                       840
ngnaaaatct ngttttaaag gnggattgag aaggaaacnt naaagaggga anggggaaca
                                                                       900
atttqtqaaa gaaaaatncg gngggaattt ttgcccttca aggggaaana atggccctgg
                                                                       960
ggggtaaaag anggccaccc tggggtggtg ggat
                                                                       994
      <210> 609_
```

<211> 843

<212> DNA

<213> Homo Sapiens

### <400> 609

ggccaaaaaa anttatttna atttcctatt aanchtcctc chcaaancat tatttnaccc 60 tatnnenene ngantttnan aaantacett tnntnttaaa aaacetngga aaaaaaataa 120 tngcaaatan ttaaccttnc ttgaaaangg aaatttntac caanggacng aaancnttnt ___ _.180 aattngaant naaattatan ttngaaancg gennengaaa ceaanettna tggteeaatt 240 atcctnaang agggnntttn annactaatn cocngatttt ccaatangga ancccnnntt 300 aaaantnttt tnattttaaa aataaccong tntccaaccc cngatcanat tootttnatt 360 tggattgggg aaaaaaatnc ngttccnnat accnngaann gcaaantttt taaattttta 420 accecetan ttttaaaane tatngaaaan tngattanng acttgaattg ccaaccetan 480 ttncnggcca ccngtgggcn tngtnttcct tacttantcc ccccaaggaa annccttaan 540 cngaanctcc nccaaaataa cccttaanta tccttggtaa ccaaancaaa acctttttng 600; tttacntant cettgggatt taacgggtcc ccaatttnat cengaaccca nttttecccc 660.52" naaccatant taccatttta ccttggtaag geneagtngt ttgeantnee geaaaneagt 720... antittocco nggenettte ecceganeet tgggaaaaae gggatnggte eccecettaa 78000 aaaacaacct tcccccncct ttggcccagg nnttnttccc gtctaaatcc gaacaataaa 8400000-843

<210> 610

100

<211> 707

<212> DNA

<213> Homo Sapiens

### <400> 610

ctagtctcga gtttttttt tttttttaa cctttcctta tgagcatgcc tgtgttgggt 60 tgacagtgag ggtaataatg acttgttggt tgattgtana tattgggctg ttaattgtca. 120 qttcaqtqtt ttaatctgac gcaggcttat gcggaggana atgttttcat gttacttata 180 ctaacattag ttcttctata gggtgataga ttggtccaat tgggtgtgag gagttcagtt 240 atatgtttgg gattttttag gtantgggtg ttgagcttga acgetttett aattggtgge 300 tgcttttagg cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag 360 tgtccaaana gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt 420 tetgtgggea aatttaaagt tgaactaaga ttetatettg gacaaccage tatcaccagg 480 ctcggtaggt ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggg 540 totgetettt tanetgttet tangtanete gtetggttte gggggtetta getttggete 600 teettqeaaa gttattteta agttnaatte attatgenea angtataggg gttagteett 660 gctcatatta tgcttggtta taattttcca nctttcccct tgcggta 707

<210> 611

**YY U フフ/U44U**ご L しょ/ リロフロ/ステロ/ツ

```
<211> 663
      <212> DNA
      <213> Homo Sapiens
      <400> 611
ccattttata atgcgcttta tttgattaaa gaatttgcct tctttgtata cactggaatg
                                                                       60
ttatattccc tatgtatttt acagggttac aaaatgtctc tcattttaaa tattaccca
                                                                     120
aaagtaatct canaaaaaaa aggttttttg aaattaaact tgacttttaa aaaatcatac
                                                                      180
ggacaaacaa ctttcaaaca aaactggatt agtaggattt cttgcctgct taactaacat
                                                                      240
gacanacttc ttgtcccagg cccttctcan aaaaacctca tgtggaaacc aagctanaga
                                                                      300
taanaattet teeetgatge agttagggga aagggaaagg etagaaaett etttggeaag
                                                                      360
caattecaca cacagecatt tatgtgtgag tgetetgett caageacagt aegetetttg
                                                                      420
cagggacggc cagatgttca gagtgggagt ggtacttttc aaccagctaa aagtgcagaa
                                                                      480
gtcatctant cgtctgcctc ttcccactgc cagtgcctgc agccttgcag eaactttaa
                                                                      540
ccaccccta tgggactgga atnttgagtt aaaaagccaa ngctgaactg gctgacgctg
                                                                      600
tantetecan tgaaaaggaa atgggatgaa atggaaaccg aaaaaccccc ngtnacntga
                                                                      660
                                                                      663
      <210> 612
      <211> 621
      <212> DNA
      <213> Homo Sapiens
      <400> 612
cattttataa tgcgctttat ttgattaaag aatttgcctt ctttgtatac actggaatgt
                                                                       60
tatattccct atgtatttta cagggttaca aaatgtctct cattttaaat attacccaa
                                                                      120
aagtaatctc anaaaaaaa ggttttttga aattaaactt gacttttaaa aaatcatacg
                                                                      180
gacaaacaac tttcaaacaa aactggatta gtaggatttc ttgcctgctt aactaacatg
                                                                      240
acaaacttct tgtcccaggc ccttctcana aaaacctcat gtggaaacca agctananat
                                                                      300
aanaattett eeetgatgea gttaggggaa agggaaagge tagaaactte tttggeaage
                                                                      360
aattecaene acagecattt atgtgtgagt getetgette aageacanta egetetttge
                                                                      420
agggacggcc anatgttenn antgggagtg gtacttttca accagctaaa antgcanaag
                                                                      480
teatetante gretgeetet receaetgee agtreetge ageetreag caterritaa
                                                                      540
ccacccctat nggactggaa tattgaatta taaacccngg ntgaactggc tgangctgtt
                                                                      600
tctcccttga aaaggaaatg g
                                                                      621
      <210> 613
      <211> 637
      <212> DNA
      <213> Homo Sapiens
      <400> 613
cattinataa tgcgctttat ntgattaaan aatnngcctt ctttgtatac gcnggattgt
                                                                       60
tatctcccct ntntatttnn gggggttaca anttntcnct catttnaant atnncccaa
                                                                      120
tantntnctn aaaaaaaaga ggtttganga aattaaactt gacttttaaa anatcatgng
                                                                      180
gacaaacnac tttcaaacaa agctggatta gnaggatttc tngnctgctt aactaacatn
                                                                      240
aaanacttct tgtcccaggc cctnctnaaa aaaacctctt gtggaaaccn agcnaaaaat
                                                                      300
aananttete eeetgatgea ntggggggag anggagagge taaaaaette tntggcaane
                                                                      360
anticcaene aengecatti tintninagt genetgeine nanennagta egetettigg
                                                                      420
gnggacggcn anntnttnat agngggagtg gtnctttcaa ccagctaata ntgaagaaat
                                                                      480
catchagtcg netgeeteth eccaetgeea gtgeetgent cettgeaach tetttaace
                                                                      540
ccccctangg acnggattat nnagttaana ccgaggntga gctggntgac gctntctcct
```

<210> 614

ccatttgaaa angaaatgga taagatggaa ccgaaaa

600

タヤ ひ プラ/ひずんひご

<211> 673 <212> DNA <213> Homo Sapiens <400> 614 agattatgcc attgaggcta agaatagagt catttttgat ctaatttatg aatacgaaag 60 aaagagatat gaagatette etataaatag caateeagtg tetteteaga aacaaceage 120 cttgaagget acaagtggca aggaagatte tattteaaat atagecacag aaataaagga 180 tggacaaaaa totgggacag tgtottotoa gaaacaaccg goottgaagg atacaagtga 240 caaggatgat totgtttoga acacagcoac agaaataaaa gatgaacaaa aatotgggac 300 agtgcttcct gctgttgaac agtgtttaaa caggagtctc tacagacctg atgctgttgc 360 acagcotgtg acagagaatg agtittottt ggaatotgag attatttcaa aactatacat 420 cccaaagaga aagattattt ctccacgatc tataaaagat gtgcttcctc ctgttgaaga 480 ggetgttgac aggtgtetet acetactgga cegttttgca cageetgtga caaagggata 540 agtttgcttt ggaatctgag aatatttcag aaccatactt tacgaacaga aggactattc 600 tcaacaatct gcagaaaatt tagatgctgc atgtggcatt gacaaaacag aaaatggana 660 673 catgtttgaa gac <210> 615 <211> 714 <212> DNA <213> Homo Sapiens <400> 615 cctctggcta tattcaaaac agaatctttc tcatcacttg aagccttcaa gcctggtggt 60 ttctcanaan acactgtcct agattfttct ccatccttgt tttctctggc tatacccaaa 120 acagaatett eetegteact tgtaceette aaggttggtg gtttetgana anacaettte 180 ctanatattt ctccatcctt ttttcctctg gttatattcg aaaaanaatc cttctcatca : nountiles prominently topaged togagedeg tittitioga naagacactg tectanatity tictocated and 300 charges a tegetetete toggetatact caaaacagaa cetteetegt caettgtane eggetaagget 4.4 360 grander [6] ggtggtttet ganaanacae tgteecanat tttteteeat cetttattte.tgtggetatg transfer was trogadacag aatotttoto atoagttgta goottoaagg ntggttgtttoctgaaaanan. 11 480 TENDENTIFICAL CEGEOCCANA ETETECCOA ECCETTATE CEGEOGCEAT NEECGAAACA GAATCECCE AND 540 cgtcagttgt accttcnagg ntggttgttt ctgaaaaaan actgtcccac actgtatcca 600 teettttatt tntgttanet atatenaage aaaatetgtt ttgteeettg ttacentttg 660 aaggtnggtn gtttctgaaa aataanctgt tccanatttt cccaccaccc attt 714 <210> 616 <211> 688 <212> DNA <213> Homo Sapiens 400 616

L U. I. U. U. J. U. I. TU I. J

4 Q 1 L20

್ ಪ್ರಶಾಕ್ತಿಯ ಕ

12.00

.....

<400> 616					
cctctggcta tattcaaaac	agaatctttc	tcgtcacttg	tagccttcaa	gcctgatggt	60
ttctcanaan acactgttct	anatttttct	ccatcctttt	tttctctggc	tatattcaaa	120
acanaatctt cctcgtcacc	tgtagccttc	aaggctggtg	gtttctgaaa	anacactgtc	180
ctanatgttt ctccatcctt	tctttctctg	gttatatttg	aaaaanaatc	tttctcatca	240
cttgtagcct tcaaggctgc	ttttttccga	naanacactt	caagcctggt	ggttgctctg	300
aaaacactgt tctaaatttt	tctccatcct	ttttttctct	ggctatattc	aaaacanaat	360
cttcctcgtc acttgtagcc	ttcaaggctg	gtggtttctg	aaaananact	gtcctanatg	420
tttctccatc ctttcttct	ctggttatat	ttgaaaaana	atetttetea	tcacttgtan	480
ccttcaaggn tgcttttttc	cganaanaaa	cttcaagcct	ggtggttgct	cngaaaaaac	540
tgtcctaaaa tttttctcca	tccttttctt	ctctnggcta	tactcnaaac	aaaatcntcc	600
togtecettg ttncccttca	anggtgggtg	gtttctcgaa	aaaaanactg	tcctanaatt	660
tteeteente cetttttte	tctgggtt				688

<210> 617 <211> 721 <212> DNA <213> Homo Sapiens <400> 617 ttcgggcttc cacctcattt ttttcgcttt gcccattctg tttcagccag tcgccaagaa 60 tcatgaaagt cgccagtggc agcaccgcca ccgccgccgc gggccccagc tgcgcgctga 120 aggeeggeaa gacagegage ggtgegggeg aggtggtgeg etgtetgtet gageagageg 180 tggccatctc gcgctgcgcc gggggcgccc gggcgcgcct gcctgccctg ctggacgagc 240 agcaggtaaa cgtgctgctc tacnadatga acggctgtta ctcacgcctc aaggagctgg 300 tgcccaccct gccccagaac cgcaaggtga gcaaggtgga gattctccag cacgtcatcg 360 actacatcag ggacettcag ttggagetga acteggaate egaagttgga acceeegggg 420 gccgaggget gccggtccgg gctccgctca gcaccctcaa cggcgagatc agcgccctga 480 eggeegangt gagateeaga teegaeeact anateateet tatacegaeg gggaaaenga 540 agccatanaa ggcgtgggcg cttgcaccac ttccgtccca tccttgcggg tacctggtct 600 atgenggggt neetaaggae ettggaaaaa aegeteeeee gtegttgett eetggggaan 660 ggggcgttnc gctgcgcttc ggaacggggt tccttccaac ccgccggtct catttcttct 720 721 <210> 618 <211> 461 <212> DNA <213> Homo Sapiens <400> 618 ccaccancta anttattnnt ttaataacaa aaaaacancc ccacaaaact atngtaaaac 60 aatatttcca ntcggtnatc ntngtattnt acaatacaaa ncanttcccn caaaattctn 120 aaaancacca ancttnacca ttttttaaan tttctgcttt ncaaaaanta aaaacncnca 180 attgnantee caccecetaa attetetggt nactattagg tntncaaaaa gnaceneeen 240 etecnencea ttgeeteane encanceceatggetgnatne atttaaggge neattggeeg 300 ccaatcggnc tnntccnccc ncaaatccgg caaggcnctt nggggnaaac ccacaaanca 360 ettatteece etngeeceet gaatggetggeggteegeegg teeetggggn aggeneteea 420 ccaacncaaa atgcaatent cencagnaac centgeegee t 461 <210> 619 <211> 751 <212> DNA <213> Homo Sapiens <400> 619 eccgagggae caeagetgge ageteegggg atgeeetegg caaageactg geetegatet 60 actoccogga toactoaago aataacttot ogtocagooo ttotaccoco gtgggctoco 120 cccagggcct ggcaggaacg tcacagtggc ctcgagcagg agcccccggt gccttatcgc. 180 ccatctacga cgggggtctc cacggcctgc agagtaagat agaagaccac ctggacgang 24 Ó ccatccacgt getccgcage cacnccgtgg gcacagccgg cgacatgcac acgctgctgc 300 ctggccacgg ggcgctggcc tcaggtttca ccggccccat gtcactgggc gggcggcacg 360 caggeetggt tggaggeage cacceegagg acggeetege aggeageace ageeteatge 420 acaaccaege ggccctcccc agccagccag gcaccctccc tgacctgtct cggcctcccg 480 actectacag tgggetaggg eganeaggtg ecaengegge egecanegag ateaageggg 540 aagagaagga ngacgangag aacacgtcag cggctganca ctcggaagaa ganaanaagg 600 aactgaagge eccegggeee ggaccattae ggaacaagtg etgteeettg naggagaaaa 660

エ しゅし ししょしい ムマシャン

720

751

ママ ❤ ノン/ひずみひご

actgaaggac cgggaaaagg cncatggcaa ttacnccccg ggaaccggtg cccttccggg

atattaacna aggetteegg gaactggggg c

```
<210> 620
      <211> 556
      <212> DNA
      <213> Homo Sapiens
      <400> 620
aatacaacgt ttaatcatct ggttgatcaa aaaatgcaat gctcagtcta ggaacagcag
                                                                        60
caaaaatagc ganagacacg ggacttttat acaaaaaaat ttgttgctta caaaacatat
                                                                      120
qcaaaaaaaq cttaaaaaaa ccaaaaacca aaggcagcat ccttgctaat tttcatctac
                                                                       180
attaanaaaa aaaaaatctt gtaactaatg tttttatttn ccttaaaaaa aatatttcgc
                                                                       240
ttaggcacaa tttgctggtg gctttaaaaa aataagccag gtttccacag catccccctt
                                                                       300
gagtgatatn tttccatttc tccgcttttt atagttaagg cattttttnc tnctctgaca
                                                                       360
aagtgtatgt tttgttgctt gctttcaggt tttgtttact ggaaaaaaaa aaaaatgccc
                                                                       420
tqtcanccca nqcaanaggg ccaanatqca attcagggat ccntgggaca ggtccaaaat
                                                                       480
gacccggggg ctgaaattcc gggacggggg aacaaggcnn tttaatngta ggccagggcc-
                                                                       540----
canggaaccc tgaacc.
                                                                       556
      <210> 621
      <211> 708
      <212> DNA
      <213> Homo Sapiens
    - - <400> 621
ccacttnaat teetttatne ancaatatta teenaaaagg aaaaateagg atttacaaaa
                                                                        60
acaatttaan tgcaatataa aaccctacta aatacaaata caattncaca aacncntatg
                                                                       120
caacaaaaac ttgtttaaat ngttccttna atttnnacta cttaaaanca taggtntaaa
                                                                       180
ggaaaaacnt ncaaactggt ccacttgggc ttnttaccag gcaaagnaac cctgcttncc
                                                                       240
aaaaactnat atatteeaaa tteneggeat ntggnaatnt tnecatggae netgnatett
                                                                       300
aacaaatget atantnttta caaaactacn eeencaaaaa aaccecaagg aacctgeagg
                                                                       360
ctaancecta thettttaaa gggctnaagg, aaccaaacet attttaance thitingtitig
                                                                       420
cnccatgcaa aactttatgn aaaaccccca aactaggcta tttancnnct necatnaatg
                                                                       480
gnccccaaat catninatno tacggcataa acaacancig coctatitac neggaaccig
                                                                       540
caaanctcac aagnaatgtg:aagtnggngbungggantcaa tgttnccggg tnaattatet
                                                                       600
tggatnanaa centttteta catnactatt gaaaaaacet gtggtttett getttttaae
                                                                       660
aaatnnggtg tteetttgee eeceeeett atttteaag ggetgggt
                                                                       708
       <210> 622
       <211> 675
       <212> DNA
       <213> Homo Sapiens
      <400> 622
 atcacagtcc agagagtcct agaggaggac gagagcataa gancttgcct tagtgaagat
                                                                         60
 gcaaaagaga ttcagaacan aatagaggta gaagcagatg ggcnaacaga agagattttg
                                                                        120
 gatteteaaa aettaaatte aagaaggage eetgteeeag eteaaatage tataaetgta
                                                                        180
 ccaaagacnt ggaagaaacc aaaagatcgg acccgancca ctgaagagat gttagaggca
                                                                        240
 gaattggagc ttanagctga agaggagctt tccattgaca aagtacttga atctgancaa
                                                                        300
 gatntaatga gccaggggtt tcatcctgaa agagacccct ctgacctana aaaagtgaaa
                                                                        360
 gctgtggaag aaantggaga anaagctgag ccagtnegta ntggtgetga gagtgtetet
                                                                        420
 gagggtgaag gantagatgc tacttcaggc tccncagata gttctggtga tggggttacn
                                                                        480
 tntccatttn aaccngaatc ctggaagcct actgatnctg aaggtntgan gcnntntgac
                                                                        540
 ngggagttet getggaette eagtteatge etgeetggta tnetttneee gagggeetge
                                                                        600
 etectntcag tgatttggtt ettgacaaga tecneentee ecettttgee aatgeegaac
                                                                        660
```

tctgggatcc ttcga

```
<210> 623
       <211> 713
       <212> DNA
       <213> Homo Sapiens
       <400> 623
 gctaaacatt tttttaagta tgagtccttg tttaaaaaga_aaagattaaa acagaaaata-- -----60
 ttttctataa ataatacatg tattttggtt ttagtgctcc cgccctaagg tttgaagttt
                                                                   120
 actititates agracettit testecatga teacettiti tietettice esteceas
                                                                   180
 tegtgcacac gtgggggttt ctgcgagaat tggccttgct gcactgtgat tggcgaanac
                                                                   240
 gtgaaacttt ttaaaaaaat acttaaattg tttcttttgt ttcattttgt gtatttgaag
                                                                   300
 ttttagttat cetcagaete etettetget teeegeagee aegtgaagaa tgeegtgaca
                                                                   360
 gatttcagag ccacgecett eccattetge tetgcagggt cettgetget etcecatttg
                                                                   420
 tagaaggcat cctcggagat cacctcctcg tcatatagac aatcaaaaaa catccgcage
                                                                   4-8-0-
 aaattggcag gttgatcaag ttttactatc gatgcttgta gtgcataaag tgctgcagtt
                                                                   540
 cettetetgt atetgantet aggtaettga gtaagategg caetetetge ttgataacag
                                                                   600
 cagtgtccac tctgaaggta naagaatcng gttattatag cttgctttaa caaacagcng
                                                                   660
 tenttaaage tetaaggaat gttangtgaa atneaetgga tttegtetaa att
                                                                   713
       <210> 624
       <211> 554
       <212> DNA
       <213> Homo Sapiens
       <400> 624
 cattenagaa agatnttaca caeggagttt neteantatt gggeteaaeg ggaagetgae
 tttacggana ctctgcttca agtaacgana gatattanaa ganaatgctg gancgtcgtt
                                                                   60
                                                                  120
 tggctatctt 'cnaggatttg gttggtaaat gtgaccctcg agaanaagca gcgaaagaca
                                                                  180
ttintgccac caaagttgaa actgaagaag ctactgcttg tttagaacta actttnatcc
                                                                 240 mil 12 many
 ccagaganaainatgaatccg attcattgat tcaagagett gagacatctg ntaaganaat
                                                                 13601 Hade had 14
 aattnoacan aatotggaga attnnagaat tgatnaatat nattgatonn togaagatao
                                                                / 14202977-5 at conv
ggctgataca tettetttaa taataaacaa taaattgatt tgttatgaaa cagttgaagt
                                                                   540
 acctaaggga cagc
                                                                  554 January 1988
       <210> 625
       <211> 551
       <212> DNA
       <213> Homo Sapiens
      <400> 625
 gactgcatgt teteatttat ttatgggate taaaaataaa atcaattgae etcatgggea
                                                                   60
 tacanantaa aaaaatggtt accagtggct ggtaagggta ctgacggttg cagggggagg
                                                                  120
 tggggatggt taatgggtac aaaaacaaat aagatnaaaa gaatgattta atatctgata
 gcacaatana ntgactataa tcaataataa cttacttgta tatttttaaa tgatctaaaa
                                                                  180
                                                                  240
 aatgtaattg gattatctgt aattcaaagg aaaaatgctt gaggggatgg atacctcatt
                                                                  300
 ctccatgata cacgtntttc acattgatgc ctgtgtcaaa acatctcaca taccccgtaa
                                                                  360
 atatatacat gtactatgta ccacaaaatg tttacaaaat aagtganaca ttctaattaa
                                                                  420
 agactgaaat ctttttctaa ataatgtata tacatgtttt gtgatctgta cacacttatt
                                                                  480
 ctccaaatcc taactntant cccaacanat atnttaaatc cttgtttanc ngaataagtt
                                                                  540
 aaaaaaatcc t
                                                                  551
      <210> 626
```

<211> 680

<212> DNA <213> Homo Sapiens

<400> 626 atttggtaac aggattaaaa agaaattttt aattccttgt ctctcttctg atggctgaac 60 agaactgcgg tgtcaaatgg aaagcagcac acaagaattc ccttgcagac cttgatcttt 120 cgcanaaatg caaagacgcc tgagttatac aacttgcaat tattattttc tanacagaag 180 tgccaactgt tgtgctttcc agtgtatcag tggttgctac attctccttc ttgtcttcgg 240 gtttcatggc aggaaacaga agtacttcct tgatgttgtt ggagtccgtg agaaacatgg 300 cgactcgatc aatgcccatg ccccagccag ctgtgggggg cagcccatat tccagggcag 360 tacagaagtt ttcatctatg aacatggeet catcatcace tgcageettg geettggeet 420 gttcttcaaa aanctgccgc tgccgcatgg gatcattcag ctcagtatac gcattgcata 480 tetetttett catgacaaac ageteaaane geteagteag acetetttaa aneggtgeea 540 tttaaccnaa gggccattat ctgtgggtga tcacagatga atgtnggatt gatgcaagtc 600 acttccanga actccccaac aancttgtca aggaacctgg ctgtggtcca angtggaagg 660 680 catccacanc ttttgccccc

<210> 627 <211> 753 <212> DNA

<213> Homo Sapiens

<400> 627

STAN STANFORD OF A

\$ 35 KA Com 1 . .

of Planter Carafra

1872 CAST - - -

. 1 3

·夏琳》(1977年)

acaaatatga acgtctgaag gcaaaccagg tagctactgg cattcggtac aatgaaagga 60 aaggaaggtc tgaactaatt gtcgtggaan aaggaagtga accctcagaa cttataaagg 120 180 tottagggga aaagccagag cttocagatg gaggtgatga tgatgacatt atancagaca taagtaacag gaaaatggct aaactataca tggtttcaga tgcaagtggc tccatgagag 240 tgactgtggt ggcanaagaa aaccccttct cantggcaat gctgctgtct gaagaatgct 300 ttattttgga ccacggggct gccaaacaaa ttttcgtatg gaaaggtaaa gatgctaatc 360 360 cccaagagagg gaaggctgca atgaagacag ctgaagaatt tctadagcaa atgaattatt 420 35 3 3 ccaagaatad ccaaattcaa gttcttccag aaggaggtga aacaccaatcatcaaacagt 480 👉 🦫 🐎 🤇 tttttaagga etggagagat naacgatcag agtgatggct tcgggaaagt ttatgtcaca 540 gagaaagtgg etcaantnna acnaatteee tttgatgeet ennaattaen eagtteteeg 600 350 000 cagatggcag cccagcacaa tatggtggat gatggttctg gccaagtgga aatttggcgt 660 gtncaaaaca atggtaggat ccaagttgac cnnaactcct atggtgactc ccatggtggt 720 gactgctact tcatactcta cacctatccc tga 753

<210> 628

<211> 675

<212> DNA

<213> Homo Sapiens

<400> 628

ggtgtttcca aaggctttta ataaggttaa aaaaaaaata aaatnccnct taaaaaaataa 60 cnettanean ttaatgaeat caaantenen ttgaetaaaa aaggaaaata neaaceaatt 120 gttaaancca ccttaacata aaccttatng caattntaca entcttttga acncaatcta 180 taaaaaaaaa aataactncc anggcattac aacttttnct ctggcatntt aaaaaacaac 240 tetnactaat ggetaatgea ttataaaatt neetatetna caaatettne taaattatge 300 atagtatttt acttttnaaa ggtcntaaaa aaaatataaa tcanttncca taaaanctaa 360 tatnggccca taacaaaant tccctncagg ttattttaat ntnttaacnt aaaaaaacnc 420 cagntgaaaa aaaattncaa nccaaaacta accnttaaaa aataggcntt nggttnaggt 480 taatitttit tttttttt ttgnaaanaa antcoctntt gcccagnctg gattgtggtg 540 genecaatee tggeteactg caaceteage etectgggtt caageaattt neetgtetea 600 660 geetteeaan tteengggaa taeaggggtn enceaceaen eecagetaaa ttttttttgt 675 ttttttant aaaag

```
<210> 629
      <211> 677
      <212> DNA
      <213> Homo Sapiens
      <400> 629
aagatcagcg atatcacgcg tcccccggag catcgcgtgc aggagccatg gcgcgggagc
                                                                       60
tataccacga agagttegee egggegggea ageaggeggg getgeaggte tggaggattg
                                                                      120
agaagetgga getggtgeee gtgeeecaga gegeteaegg egaettetae gteggggatg
                                                                      180
cctacctggt gctgcacacg gccaagacga gccgaggctt cacctaccac ctgcacttct
                                                                      240
ggctcggaaa ggagtgttcc caggatgaaa gcacagctgc tgccatcttc actgttcaga
                                                                      300
tggatgacta tttgggtggc aagccagtgc agaatagaga acttcaagga tatgagtcta
                                                                      . 360
atgactttgt tagctatttc aaaggcggtc tgaaatacaa ggctggaggc gtggcatctg
                                                                      420
gattaaatca tgttcttacg aacgacctga cagccaagan gctcctacat gtgaagggtc
                                                                      480
gtanagtggt gagagccaca gaattcccct tagctgggac agtttcaaca agggtgactg
                                                                      540
cttcatcatt gaccttggca ccgaaattta tcanttggtg tggttcctcn tgcaacaaat
                                                                      600
atgaacgtct gaaggcaaac cangtancta ctggcattcg gtncaatgaa aggaaaggaa
                                                                      660
ggtctgaact aattgtc
                                                                      677
      <210> 630
      <211> 665
      <212> DNA
      <213> Homo Sapiens
      <400> 630
gagacagagt ctctgttgcc caggctggag tgtggtggcg caatcctggc tcactgcaac
                                                                       60
ctcagcctcc tgggttcaag caattttcct gtctcagcct tccaagtagc agggactaca
                                                                      120
ggcgtgcacc accacgcgca gctaattttt ttgtattttt agtaaaggcg aggtttcgcc
                                                                      180
atgttggcca ggctggtctc gaaatcgtgakccccagtgat ctgcctacct catcctctca
                                                                      240
aagtgctggg attacaggtg tgagccaecggcct taattttcaa aagacaaata
                                                                      300
agcaaaaagc ttttcccgtt cctctcccaa aacagcaatg agataactgc cttgtaatgt
                                                                      360
ttgtttgctt tttacaaata ccaattbaccmacttgctgga atcccagcccmaggaaccagc
                                                                      420
ctgtgaatgt gggtggctca tggccetgtt%ttatgatgac aattggtgtc%ctettgtctc
                                                                      480
ttccagaagg gtctgtctca aggtacattt tggcanactt caaagattct tttttctcaa
                                                                       540
cttcattagc atctttgcca atccaaataa atatctgttc ccaagcatct agtaacatga
                                                                      600
catcatcttc agctaaatca teetgggtga acteteettg gaatetette aataacaaat
                                                                       660
ctccc
                                                                       665
      <210> 631
      <211> 698
      <212> DNA
      <213> Homo Sapiens
      <400> 631.
ctgaggagct ggtggtcttt gaggatttga atgtatttca ctgccaggaa gaatgtgtga
                                                                        60
gettggatee taeteaacaa eteaegteag agaaggaaga tgacagcagt gteggggaaa
                                                                       120
tgatgttact ggtcaatggc agtaatcctg aaggtgaaga tcctgagagg gaacctgtan
                                                                       180
aaaatgaaga ttatagagaa aagtetteag atgatgatga aatggattet teettggtet
                                                                       240
ctcagcagcc tcccgataac caggaaaagg aacgactaaa tacatccatt ccacaaaaaa
                                                                       300
ggaaaatgag aaatctgtta gttaccattg agaatgatac tcctctagag gaactctcaa
                                                                       360
aatatgtaga catcantatt attgccctta ctcgaaatcg gaggacaagg agatggtaca
                                                                       420
cttgtccact gtgtgggaaa cagtttaatg aaagttctta cctcatttcc caccagagga
                                                                       480
cccacactgg agaaaaaccc tatgactgtn ntcactgtgg gaaaagcttc aatcatnaaa
                                                                       540
caaacctcaa taaacatgag cgaattcnta caggagagaa accttattcc tgttctcagt
                                                                       600
gtggaaaaaa cttccgtcng aattctcatc ggagtcgtcc tgaaggaatc catntaacgg
                                                                       660
```

agaagatatt aagtgtccan aatgtgggaa aacctccc 698 <210> 632 <211> 466 <212> DNA <213> Homo Sapiens <400> 632 atcacaaatt gtaaatatta ttgaaattga ttgcaaattt agatcacata caaatgagag 60 120 totgacatto aactgtttto otatattoca aagtaaacaa ttootttoaa cactcaagac ttaaacaggt attcttagag ggttatatga attgctatca gaagctgttg gctaacaagc 180 cagtaatttg gttctttcac canaacacag ttccagataa gcatctttgc actatttctc 240 aantatgaat ccccatgtgg ggggaaaacg gatatacttt caatagacac aagtcactct 300 ttqccttcca aqtaaqcana ctccagattc atcttcaaag tgttgggaaa ngggatctgt 360 gacctgtnca ttatcatata acttcaaaaa ggaaagctcc ttantccaaa aagcctanat 420 getgaggtat agecettgaa atgttttett eeetgtnaat tteeta 466 <210> 633 <211> 734 <212> DNA <213> Homo Sapiens <400> 633 cacatacagt ctttgtttta atgtttattg gtagaaacag atcttcaatg catactttgt 60 gtttatataa actctacatt ctcttaaagg ttttcgtttt gttttcactg gagattttta 120 geetecaagt gaaettaaca tattgeetat geatetgatt etttatanae tittanattt 180 taaaactaaa tttganaaac catgcatact gtatacctta tttaataatc caaanaattg . 240 tttgcacttt caaaaaagtt acaaaaaggc tgaacacaag ttaaataacc tatatgatgt ... tag30.0 ... daathtttccambttctgaata ctttttcagt attatatatt gcttgctgtc taataagtta : 1860 00 20 4 1 1 186 gattgtcaga nacgettcag taaattatet etaetttaaa attatatetg aateeeettt matta4204ga energy erdiganatg aacttgccaa tattaaacat tgtgccatat gcagtattan cccaaaagct 💥 🕮 480 🕮 🕬 ・ taaataagaa Gocaaacttgt agactgaata. ttttaacctt aaaattatat acctatatat (過音:540 (地震) 4250 (地震) ncaddtatgg tatgetgeat attaaattta acattteaag taacatatat atageaaaca 🕬 600 🕬 🕬 ttcagccaaa tactctttca tgaaaagata ctgtccttaa aataaaaagt tantgaaaag £146,600.00 ... 1 1/2 cttatttaga ccnaatgtct aaatataant nctaagccta tgaaacttga anctaaagtc **3. 37.2.0**9代表 27 734 tgctgtncta ttta <210> 634 <211> 822 <212> DNA <213> Homo Sapiens <400> 634 ctcctgtgct tacacctgta gaaaaacacc agagcagaga gtatctcaag tgatgaagag 60 gttcatgaat ctgtggattc agacaatcag caaaataaaa aagttgaagg tggatatgaa 120 tgtaaatatt gtacttttca aactccagat ctaaatatgt ttacttttca tgtggattcg 180 gaacatecca atgtagtget aaatteatee tatgtttgtg tegaatgeaa ttttettaee 240 300 aaaaggtatg atgcactttc tgagcataat ctgaaatatc acccaggaga agagaatttt aagttgacta tggtgaaacg taataaccag acaatctttg aacaaacaat aaatgatctg 360 acttttgatg gtagttttgt taaagaggag aatgcagagc aagcagaatc tacagaagtt 420 tottottogg gaatatotat cagtaaaact ootatoatga aaatgatgaa aaataaagtg 480 qaaaataaac qqattqcaqt tcatcataac tcagttgagg acgttcctga agagaaagag 540 aatgaaatca aaccagaccg tgaagaaatt gtagaaaatc caagttcttc agcttctgaa 600

A しょ! UU22U! 17U! 2

660

720

tctaatacaa gtacttccat tgtaaacaga atacatccaa gtactgccag cacggtagtg

acccagcage agttectece tggattggge ccaggtgata actgetgtnt etgetecgee

<213> Homo Sapiens

<400> 637

1000

\$1. 图图的 Park (AD) (

极物的对称的变形。

**知**我们会会们。

经股票债金 计设计

SPST THAT I I'M

47 147 44

gaaagcaaat ttetttaat ganaactcaa aattaaactt caaagggace caacgtcata 60 cttecattca gggacttgat acaaaaaatt tagtttgaac tgctattage aggtggcagg 120 agccacctte aaatgaatct tcaaattgga aaatactget tcaccacctg ttggggataa 180 nttgcaaatg gaataattta gtatggtttg tagctatttt gatnaccacc tcgcctgnat 240 acctteccat aaccactgtg ctggtcacca cctettecac aagctettee tgcaaatect 300 cctettaaate cccactgttg ctgttgctga tattgtneet tcgacatgge tacttttatt 360

```
tcacatttac taaaaccaac attgtggtat ttcttttcca ttatcttctt cactggttct
                                                                                                                                                                                           420
tcttccttaa aggtaataaa gcaaaaccca cgcctcttat tggtcttgtt gtccatgggg
                                                                                                                                                                                           480
agctctatgg attccacctc accaaaacca ccaaagtact cccttatttt ctcttcaggt
                                                                                                                                                                                           540
gtatctggan aaaggccacc ancnaaaatt ttttaaccgg ctcttttgtt tccatggctt
                                                                                                                                                                                           600
tgggcctttt angatcaatc accttcccca ttcaatttat gttctttttg gatccatgaa
                                                                                                                                                                                           660
cetttnteta enceeteeg aatteettaa ata
                                                                                                                                                                                           693
                <210> 638
                <211> 619
                <212> DNA
                <213> Homo Sapiens
                <400> 638
gcactctgaa gttagatcct atcacagggc gatcaagggg ttttggcttt gtgctattta
                                                                                                                                                                                              60
                                                                                                                                                                                            120
aagaatcgga gagtgtanat aaggtcatgg atcaaaaaga acataaattg aatgggaagg
tgattgatcc taaaagggcc aaagccatga aaacaaaaga gccggttaaa aaatttttgt
                                                                                                                                                                                            180
tggtggcctt tctccagata cacctgaaga gaaaataagg gagtactttg gtggttttgg
                                                                                                                                                                                            240
                                                                                                                                                                                            300
 tqaqqtqqaa tccatagagc tccccatgga caacaagacc aataagaggc gtgggttctg
                                                                                                                                                                                            360
 ctttattacc tttaaggaag aagaaccagt gaagaagata atggaaaaga aataccacaa
 tgttggtctt agtaaatgtg aaataaaagt agccatgtcg aaggaacaat atcagcaaca
                                                                                                                                                                                            420
 gcaacagtgg ggatctanag gaggatttgc angaagagct cgtggaagan gtggtggccc
                                                                                                                                                                                            480
 cactcaaaac tggaaccang gatatantna ctattggaat cnaggctatg gcaactatgg
                                                                                                                                                                                            540
                                                                                                                                                                                            600
 atatnacage ccaggttace gtggttntgg aagatatgae tneactggtt acnacaacta
                                                                                                                                                                                            619
 ctatggatat ggtgattat
                 <210> 639
                  <211> 694
                  <212> DNA
                                                                  <213> Homo Sapiens Missi Albert Alber
                                                        Control of the Contro
                  <400> 639
                                                         1、持续或被提供的方向。
  cggcggcgcc attaaagcga ggaggangcg agagcggccg ccgctggtgc ttattctttt
                                                                                                                                                                                                60
  ttagtgcagc gggagagagc gggagtgtgcgcgcgcgcgag agtgggaggc gaagggggca
                                                                                                                                                                                             120
  ngecagggan aggegeagga geetttgeag ecaegegege geetteeetg tettgtgtge
                                                                                                                                                                                           - 180
                                                                                                                                                                                             240
  ttegegaggt acagegggeg egeggeaneg geggggatta etttgetget agttteggtt
  cgcggcagcg gcgggtgtat tctcggcggc agcggcggag acactatcac tatgtcggag
                                                                                                                                                                                             300
                                                                                                                                                                                             360
  qancanttcg gcggggacgg ggcggcggca neggcaacgg cggcggtagg cggctcggcg
  ggcgaacang angganccat ggtggcggcg acacangggg cancggcggc ggcgggaacn
                                                                                                                                                                                              420
   gaccgggacc gggggcggaa ccgcntctgg angctccnaa gggggcnncg ccnaatccga
                                                                                                                                                                                              480
   aggggcgaaa attgaccccg tatgaaccaa gaagatgaat ggaaaatgtt tatangaagc
                                                                                                                                                                                              540
   cttanctggg acactnecca gaaagatetg aaggactact tttccnaatt ttgggtgaaa
                                                                                                                                                                                              600
   ttgttaaact gccctcttga aattttnatn ctatccengg ggcnatcaaa ggggtttttg
                                                                                                                                                                                              660
                                                                                                                                                                                              694
   gettttttcc tattttaaac aaatcccgaa aaat
                   <210> 640
                    <211> 728
                    <212> DNA
                    <213> Homo Sapiens
                    <400> 640
                                                                                                                                                                                                  60
    cgccactgcn gcaggaggcg tgaggggata aaaacattca gatggcagat cacagttttt
                                                                                                                                                                                               120
    cagatggggt teetteagat teegtggaag etgetaaaaa tgeaagtaac acagaaaage
    tcacagatca ggtgatgcag aatcctcgag ttctggcagc tttacaggag cgacttgaca
                                                                                                                                                                                               180
    atgtecetea cacceettee agetacateg aaactttace taaageagta aaaagaagaa
                                                                                                                                                                                               240
```

ttaatgcatt gaaacaactt caggtgagat gtgctcacat agaagccaag ttctatgaag

YY U フブ/ひヤムひょ

```
エ シスノ シロノロノスマロテノ
 aggtacatga cttggaaaga aagtatgcag cgctatacca gcctctcttt gacaagagaa
 gagaatttat caccggcgat gctgaaccaa cagatgcgga atcggaatgg cacagtgaaa
                                                                       360
                                                                       420
 atgaagagga agagaaattg getggagaca tgaaaagtaa agtagtegte acagaaaaag
                                                                       480
 cagoggcaac ggctgaagag ccagatccca naggaattcc agagttctgg tttaccatct
 tragaaatgt ggaratgrig agtgaattan traggaaat atgatgaarr aatritgaaa
                                                                       540
 acacctgcag gatnttaaag ttgaaatttt ctgaccctgg acagcctatg tcttttgtgt
                                                                       600
 tagaatteea etttgaacee caegaetaet ttaecaacte agteetgaca aaaacettae
                                                                       660
                                                                       720
 cagatgaa
                                                                       728
       <210> 641
       <211> 732
       <212> DNA
       <213> Homo Sapiens
       <400> 641
 acctaattag atagaagttc aggaatttct atttcttttg ggttgatgaa ccacaggcta
 gcataagtcc actgtcaata aatgtttgtt gtggccagac ctccataaaa gagatattcc
                                                                        60
 ctgtgttcac aagttccctg aagcttaggt tttgagagaa tattgttgag tcactaggca
                                                                       120
 gggctcacat aggaaactgg caatcacctc tgaaactgct tcacagacac ctgcttttcc
                                                                       180
 tgetetgtte etcanaette teetetteaa gegtatteee eecacaacaa ggacageage
                                                                       240
                                                                       300
 ttggactaca tatctggctg atgatgtaat aaaaagatta ggcatggggg tttcctaagc
 cacaattcag ggccactctg caccaacaga gataagcacc_caggtggaag-ccccccttcc----
                                                                       360
 cogagoctea tacattgtea teatetteta tggeeteece agtgaagtae ageacageee
                                                                       420
 gegggaetat eegeteaegg aaaaagtgte caattteaaa ateagaaget aatgtgaatt
                                                                       480
 caaaatcttc atccagtgat ctccatcccc ggatgctttc caatggattg aagaaattga
                                                                       540
                                                                       600
 aaaaggactc attgggtact gtttcgtaat tgttctaaca gtgcctcaac cttatgcttc
 tgctttncnt ggaaggtntt gaaagtaaca ttcttncctt cttccaantc aattattnac
                                                                       660
                                                                       720
 ccccgttcac aa
                                                                       732
Charling the Charles of the
                                                                   ATT BELLEVIEW
日本以下海南州<210>1642
                         Same.
                                                                  高克里斯·阿尔斯斯克克斯 1965 11.
以於國際的第<211>△582。
                         1、1970年最後は雑選金の大切の一点
・可能は保護<212×tDNA
                        A CONTRACTOR
                                                                  · 中国的基础设施的基础的。
2. 是一种建筑建筑建筑建设工厂内部设计。
  Assert Land Control
                                                                    (400> 642
 gcttttcttc ttcctcctct tctgattctg gctcttgctt tatttgtggc tgcctgcgcc
                                                                    Burnal Ada Harris
 totcagecte ttgttecate etetggaget etgeatetgg atetggatge eettetgeca
                                                                        60
 naaggegetg cetgatttee teaageteet cettetetet etteetatet egtteatetg
                                                                       120
                                                                       180
 cttccatttc cttttctcta tcacgcaacc ttttctgaaa agcacttcct ctgtaatatt
 tggggtcatc tctatcatca tcatagtctt ctaanaattc ttttagtcgt ttagcttctt
                                                                       240
                                                                       300
 tggccatttc tcttcttctt tcttcttctc tttcagcttc tttctcatat tcccgggttt
 tetttegtte tetgatttee caattettaa ggegetettg ataancaget tetttetete
                                                                       360
 gganttttct ttcaagtttt cttcgttcgt atgcatcttc ttcatcttct tctcggtccc
                                                                       420
 gttttttgtc tttttctctt tctcgctccc gttcctctct cnctctctct ctcgctcccg
                                                                       480
                                                                       540
 ttctcgttct cgctctcntt ctctctct ctctcttcc cg
                                                                       582
       <210> 643
       <211> 784
       <212> DNA
       <213> Homo Sapiens
```

<400> 643

aagaaaagct caagtttcca agtctcttaa gggagcgatt aggcatgtca gctgatccag 60 ataatgagga tgcaacagat aaagttaata aagttggtga gatccatgtg aagacattag 120 aagaaattct tcttgaaaga gccagtcaga aacgtggaga attgcaaact aaactcaaga 180

```
cagaaggacc ttcaaaaact gatgattcta cttcagggag caagaagctc ctccactatc
                                                                                                                            240
cgtatcaaaa ccttctctga ggtcctggct gaaaaaaaaa atcggcagca gggaagcaga
                                                                                                                            300
gagacnaaaa agcnaaaagg gatacaactt gcatcaagct aaagattgat agtgaaatta
                                                                                                                            360
aaaaaacagt agttttgcca cccattgttg ccagcagagg acaatcagag gagcctgcag
                                                                                                                            420
gtaaaacaaa gtctatgcag ggaggtgcac atcaagacgc tggaaganat taaactggag
                                                                                                                            480
anggcactga gggtgcagca gagctctgag agcagcacca gctccccgtc tcaacacgag
                                                                                                                            540
gccactccag ggggcnaggc ggctgctgcg aatcaccnnn agaaccggga tgaaagaaga
                                                                                                                            600
qaaqancctt ccgggaaggg aatgaagttg attctcagag cngtattaga acngaagcta
                                                                                                                            660
aagangetee gggtgagaac neeggggttg aceteectaa aatteeagte cagagatgtn
                                                                                                                            720
agacctgaaa gagaacccct gccganaccg ccgggaaagg ganaaatccg tcttgacccc
                                                                                                                            780
                                                                                                                            784
cttc
           <210> 644
           <211> 749
           <212> DNA
           <213> Homo Sapiens
           <400> 644
cctacatcag ttttatttaa aacacaaaca agtatttctc tttctgtaag ggcaaatggt
                                                                                                                              60
tcaaataatg cggaacacga aacattgact aatacaagtg ctttaaatat gaaacaaaat
                                                                                                                             120
tatttttaa aaaagcaaaa naataaagaa tatatacaaa agggacctgn aatctgtaag
                                                                                                                             180
gtgattccaa aaacnaaata antagaaaat ccatggtgaa acctgaacat tctacctctg
                                                                                                                             240
 ctttggagaa gggctatcat acaacattca gtcagctgaa natggattgg tanaggtgtg
                                                                                                                             300
 totatacata aactteagte attittigett gigcanaate ateceaatet teecaanact
                                                                                                                             360
 gaatgggcag teetgtgget ttetteettt teeatattee caacaagget acgtgaagtt
                                                                                                                             420
 caactettga tgageegett acaacageag tteettaggg ageeaacatg acaggtgggt
                                                                                                                             480
 canatttccc tatgagaaac aaaactggcc acctacagca aaatatcaaa atgggtaagt
                                                                                                                             540
 cetteettee tetteeteet gattatatae aacatatete ettteaagae tattatttee
                                                                                                                             600
 atcatqctta ttccttcaca aatctaaacc ttgaggtgat atgaaggaaa ccancntcaa
                                                                                                                             660
 aaaaaagaaa actcaattcc gaaatgaana aaactgggcn nggtatncaa tacnccccan
                                                                                                                          720
 aacatctcca tatccctggc ccagttacc
                                                                             The State of State of the State
                                                                                                                             749 ...
                                                                                                                            to produce
                                                                             Commission of Commission
     TOTAL STATE
     <210> 645
                                                                              Same of the same
            <211> 751
          <212> DNA
                                                                                 AND GERMAN
           <213> Homo Sapiens
            <400> 645
 agactttcct acatcagttt tatttaaaac acaaacaagt atttctcttt ctgtaagggc
                                                                                                                                60
  aaatggttca aataatgcgg aacacgaaac attgactaat acaagtgctt taaatatgaa
                                                                                                                              120
  acaaaattat tttttaaaaa agcaaaagaa taaagaatat atacaaaagg gacctggaat
                                                                                                                              180
  ctqtaaggtg attccaaaaa cgaaataagt agaaaatcca tggtgaaacc tgaacattct
                                                                                                                              240
  acctctgctt tggagaaggg ctatcataca acattcagtc agctgaagat ggattqqtaq
                                                                                                                              300
  aggtgtgtct atacataaac ttcagtcatt tttgcttgtg cagaatcatc ccaatcttcc
                                                                                                                              360
  caanactgaa tgggcagtcc tgtggctttc ttccttttcc atattcccaa caaggctacg
                                                                                                                              420
  tgaagttcaa ctcttgatga gccgcttaca acagcagttc cttaggancc caacatgaca
                                                                                                                              480
  ggtgggtcag atttccctat gagaaacaaa actggncacc tacagcaaaa tntcaaaatg
                                                                                                                              540
  ggtaagteet teetteetet teeteetgat tatntacaae atateteett teaagantat
                                                                                                                               600
  tatttccatc atgettattc cttcccaaat ctaaaccttg aaggtgattt gaagggaaac
                                                                                                                               660
  cnccatconn aaaaagaaaa acccattccc aaattgaaaa aaaactnggc agggtataca
                                                                                                                               720
  atacacccc canaaactcn ccaattttcc c
                                                                                                                               751
```

<210> 646 <211> 760 <212> DNA

77 V ///VT#V

## <213> Homo Sapiens

<400> 646		
cctacatcag ttttatttaa aacacaaaca agtatttctc tttctgtaag	ggcaaatggt	60
tcaaataatg cggaacacga aacattgact aatacaagtg ctttaaatat	gaaacaaaat	120
tattttttaa aaaagcaaaa gaataaagaa tatatacaaa agggacctgg	aatctgtaag	180
gtgattccaa aaacnaaata agtagaaaat ccatggtgaa acctgaacat	tctacctctg	240
ctttggagaa gggctatcat acaacattca gtcagctgaa natggattgg	tagaggtgtg	300
tctatacata aacttcagtc atttttgctt gtgcanaatc atcccaatct	tcccaanact	360
gaatgggcag teetgtgget ttetteettt teeatattee caacaagget	acgtgaagtt	420
caactettga tgageegett acaacageag tteettagga gecaacatga	caggtgggtc	480
aaatttccct atganaaaca aaactggcca cctacagcaa aatatcaaaa	tgggtaantc	540
cttccttcct cttcctcctg attatataca acatatctcc tttcaagact	attattccat	600
catgettatt cetteacaaa tetaaacett gaagtgatat gaangaaace	nccntccaga	6.6.0
aaagaaaact cnantcanaa atgaaaaaaa ctggcaggta tncaatacac	cccaaaacnt	720
ctcaatntcc tggcacanta caatccattg ttctgctaca	•	760
<210> 647		
<211> 1041		
<212> DNA		
<213> Homo Sapiens		
<400> 647		
caaaggegac agetgeecat teegteactg tgaagetgea ataggaaatg	aaactgtttg	60
cacattatgg caagaagggc gctgttttcg acaggtgtgc aggtttcggc	acatggagat	120
tgataaaaaa cgcagtgaaa ttccttgtta ttgggaaaat cagccaacag	gatgtcaaaa	180
attaaactgc gctttccatc acaatagagg acgatatgtt gatggccttt	tectacetee	240
gagcaaaact gtgttgccca ctgtgcctga gtcaccagaa gaggaagtga	aggctagcca	300
actiticagit cagcagaaca aattgtetgt ccagtccaat cottcccctc	agctgcggag	360
cgttatgaaa gtagaaagtt ccgaaaatgt tcctagcccc acgcatccac	cagttgtaat	420
taatgetgea gatgatgatg aagatgatga tgateagttt tetgaggaag	gtgatgaaac	480
caaaacacct accetgcaac caactcetga agttcacaat ggattacgag	tgacttctgt	540
coggaaact goagtcaata taaagcaagg tgaatgtttg aattttggaa	taaaaactct	600
tgaggaaatt aagtcaaaga aaatgaagga aaaatctaag aagcaaggtg	agggttcttc	660
aggagtttcc aagtctttta ctccaccetg agcccgttcc aagtcctgaa	aaagaaaatg	
tcaggactgt ggtgaaggac agtaactctc tccaacaaac aanggagaaa gtagattgag tcctactgan agacggggga aacgaaaant tcagcaagcg	gaancettgg	780
atcetecaat aaagegttae eetgeacaaa ggetagggaa aaaaanttaa	grgacaagrg	840
actaacattg acaaaaccac caaagaaagc tcaagnttcc aagtccccta	ancccanaaa	900
taagcatgtc aaccggatca anataatgng gntgcaacag ttaaagntta	agggaccgan	•
gaaattcagt taaaacattt q	aaaaattggg	
		1041
<210> 648		
<211> 810		
<212> DNA		,
<213> Homo Sapiens	٠	
•		
<400> 648		
ccctacatca gttttattta aaacacaaac aantatttct ctttctgtaa	gggcaaatoo	60
ttcaaataat geggaacaen aaacattgae taatacaant getttaaata	tgaaacaaaa	120
ttatttttta aaaaagcaaa agaataaana atatatacaa aagggacctg	naatctgtaa	180
getgatteca aaaacnaaat aantanaaaa teeatggtga aacetgaaca	ttctacctct	240
getttggana agggetatea tacaacatte anteagetga aaatggattg	gtaaaggtgt	300
gtctatacat aaacttcant catttttgct tgtgcaaaat catcccaatc	ttcccaaaac	360
tgaatgggca gtcctgtggc tttcttcctt ttccatattc ccaacaaggc	tacntosant	420

tgaatgggca gtcctgtggc tttcttcctt ttccatattc ccaacaaggc tacntgaant

tcaactcttg atnagccgct tacaacagca	gttccttagg a	agccaacatg	acaggtgggt	480
caaatttccc tatgaanaaa caaaactggc	cacctacage	aaaatatcaa	aatgggtaag	540
tectteette etetteetee tgattatata	caacatatct	cctttcaaga	ctattatttc	600
catcatgett atteetteae aaatetaaae				660
agaaaagaaa accaattcan aaatgaanaa				720
atctcaatat ccctggcaca gttacaattc	agtgttctgc	tacagcccat	aaaataaata	780
ttggcagctt gaataanene atttttccc	•	•		810
		•		
<210> 649				
<211> 656				
<212> DNA				
<213> Homo Sapiens				
<400> 649		attratata	~~~	
cccnacatca nttttattta aaacacaaac ttcaaataat gcgnaacaca aaacnttgac				60 120
ttattttta aaaaancaaa aaaataaaaa				180
nctnatncca aaaacaaaat aattaaaaaa				240
qcttnqqaaa agggctatca tacaacntno				300
ntctatacat aaacttcant cattttngct				360
tnaatgggca ntcctgtggc ttnctncctt				420
tcaactcttn ataanccgct tacaacagca				480
caaattcccc tataaaaaac aaaactggcc				540
cettectnee tetneeneet nattatatae				600
atcatgettn tteetneaca aatetaaace				656
	3 <b>3</b> 3	3 33		
<210> 650				
<211> 645				.:
Middle of Mileston <212> DNA:		2 £	god gandar til kill i k	·*.
চন্দ্ৰভাষ্টের মন ১০ <213> Homo Sapiens	•	10	garranam sa seles .	# .: :
一個語彙な過程があり、というというというというという。		1,	nga a tabupan sa m	4
######################################			racentari arii i	
washonous sugaactteen aenneattt tatttaaaae				* . 60
aantggtnca aatantgcgn aacncaaaac				120
100 00 00 ncaaanttat tttttaaaaa accaaaaaaa				
ctntaaccta atcccaaaaa caaaataatt				
ncenetnett tgnaaaaggg etateanaca				300
aggtttttct anacataaac ttcattcatt				360
caaaactnaa tgggcnncct ntggcttnct				420
naattncaac ncttnataac ccccttacaa	•			480
gggtcaaatt ncccnataaa aaacaaanct				540 600
tteetneetn eesteesee ngnatatata eeaegettat teenessaa nntaansett			l atatatteec	645
edacgettat teeneedaa mitaaneett	gaagttattt	aayya		043
<210> 651				
<211> 780				
<211> 780 .<212> DNA				
<213> Homo Sapiens				
(21) Homo Dapromo				
<400> 651				
ccttgacctc ccaaagtgct gagattacag	geetgageea	ctgcacctto	g cetteettae	60
ctcttttctc cgacattttt atgtttctaa				120
cacgccatat gtatgcagaa cacttaacag				180
attattata attaataaa attaaatta				240

10.11

AUSTAN Linear States

Paragraph.

12

240

300

atttcttgtc cttgctgaag attgacttga aatcttaaac taagttctcc ctctttatag

geggtgacag tgatecteca ttaaagegta geetggcaca gaggetaggg aagaaagttg

L しよ/ しいフロ/エポリ / ノ

```
aagctccaga aactaacatt gacaaaacac caaagaaagc tcaagtttcc aagtctctta
                                                                                                                                 360
aggagcgatt aggcatgtca gctgatccag ataatgagga tgcaacagat aaagttaata
                                                                                                                                 420
aagttggtga gatccatgtg aagacattag aagaaattct tcttgaaaga gccagtcaga
                                                                                                                                 480
aacgtggaga attgcaaact aaactcaaga cagaaggacc ttcaaaaact gatgattcta
                                                                                                                                 540
cttcaggage aagaagetee tecaetatee gtatcaaaae ettetetgag gteetggetg
                                                                                                                                 600
aaaaaaaaaa tengeageag ggaactgaag agacaaaaaa geenaaagga tacaacttge
                                                                                                                                 660
atcaagctaa agattgatag tgaaattaaa aaaaacagta attttngcca cccattgttg
                                                                                                                                 720
congoagaag acaatcanaa gaacctgcag gtaaaacaaa ntotatgcag ggaggtgccc
                                                                                                                                 780
           <210> 652
           <211> 518
           <212> DNA
           <213> Homo Sapiens
           <400> 652
gnacttnect acateatttt tatttaaaac acaaacaatt ntttenettt etgtangge
                                                                                                                                   60
aaatggttca aataatgcgg aacacaaaac nttnactaat acaattgctt taaatntnaa
                                                                                                                                  120
acaaaattat tttttaaaaa ancaaaaaaa taaaaaatnt ttncaaangg gacctgaaat
                                                                                                                                  180
ctntaanctn atnccaaaaa caaaataatt naaaaatcca nggtgaaacc tnaacntnct
                                                                                                                                  240
ncenetgett tggaaaaggg etnteataea aentteatte neetaaaaat ggattggtaa
                                                                                                                                  300
angtttttnt atacataaac tncattcatt tttgcttntg caaaatcanc ccaanctncc
                                                                                                                                  360
caaaactnaa tgggcantcc tntggctttc tncctttccc anatncccaa caaggctact
                                                                                                                                  420
tnaatttcaa cncttnataa neegettaca acancattte ettagganee aacatnaegg
                                                                                                                                  480
tgggtcaaat cccctataaa aaacaaaact ggccncct
                                                                                                                                  518
           <210> 653
           <211> 490
           <212> DNA
    - 213> Homo Sapiens
                                                                                                                               1744年的實施的工作時間以上,為
   Mary Commence of the Commence 
                                                                                                                               <400> 653
gttaataaag ttggtgagat ccatgtgaag acattagaag aaattettet tgaaagagee
                                                                                                                              引用每60两段都一引出心数55000
agtcagaaac gtggagaatt gcaaactaaa ctcaagacag aaggaccttc aaaaactgat
                                                                                                                              5.120746×255
gattetaett caggageaag aageteetee actateegta teaaaacett etetgaggte
                                                                                                                                  180 Jac 👢 🤋 t
ctggctgada aaadacatcg gcagcaggaa gcagagagac aaaaaagcaa aaaggataca
                                                                                                                                 240.46
acttgcatca agctaaagat tgatagtgaa attaaaaaaa cagtagtttt gccacccatt
                                                                                                                                  300
gttgccagca gaggacaatc agaggagcct gcaggtaaaa caaagtctat gcagggaggt
                                                                                                                                  360
gcacatcaag acgctggaag aaattaaact ggagaaggca ctgagggtgc agcagaqctc
                                                                                                                                  420
tgagagcage accagetece egteteaaca enaggecaet ecaagggcaa ggeggetget
                                                                                                                                  480
gcnaatcccc
                                                                                                                                  490
           <210> 654
           <211> 359
           <212> DNA
           <213> Homo Sapiens
           <400> 654
 cccanctccn ttttanttna aancccaacc aattnttccc cttccgntan gggcaatngn
                                                                                                                                    60
 tccaattatn ncgaacncca aaccttnaan natnccaatt ncttaaatnt taaaccaaat
                                                                                                                                  120
 tnntttttta aaaagccaaa naattaagaa ttttttccaa agggaacnng aatccnttag
                                                                                                                                  180
 ggtaatccca aaaccaaatt agttaaaaat ccctggntaa acccnaacnt tccnccncon
                                                                                                                                   240
 ccttggaaaa agggnnnccn ncnaccttcc atncncntaa aaatgaatgg ntaaagnttt
                                                                                                                                  300
 ttennnectt aachtecate etttttgnet nttecaaane etececanee tececaaaa
                                                                                                                                   359
```

<210> 655

720

780

840

Hilly III

1 - 1 - - 1 - 1

<211> 611 <212> DNA <213> Homo Sapiens <400> 655 tgaaaaaaaa catcggcagc aggaancaga aagacnaaaa agcaaaaagg atactacttg 60 catcangcta angattgata gtgaaattaa aaaaacagta tttttgccac ccattgttgc 120 cancagagga caatcanagg agectgeagg taaaannaag tetatgeagg aggtgeacat 180 caagacgctg gaagaaatta aactggagaa ggcactgagg gtgcagcana gctctgagag 240 cagcaccage teccegtete aacacnaage caetecatgg genangegge tgetgegant 300 cnccnaaaga ncagggatga angaagagaa gaaccttcag gaaggaaatg aatttgattc 360 tcagancatt attataactg aagctnnana ngcttcnggt gagaccacng ganttgacat 420 cactaaaatt ccagtcaaga gatgtgagac catgagagag aagcacatgc acaaaacanc 480 nngagaggga aaaatcagtc ttgacacctc ttcggggaga tgtagcatct tgcggnaccc 540 aantggcaga gaaaccagtg ctcactgctg tgccaggaat cacneggcac ctgaccaagc 6-0-0 611 ggetteceae a <210> 656 <211> 634 <212> DNA <213> Homo Sapiens <400> 656 ccnacatcag ttttatttaa aacacaaaca agtntttcnc tttctgtnag ggcaaatggt tcaaataatg cggaacacna aacattgact aatacaantn ctttaaatat gaaacaaaat 120 tattttttaa aaaancnaaa naataaagaa tatntncaaa agggacctgg aatctgtnag 180 ctgattccaa aaacnaaata anttnaaaat ccntggtgaa acctgaacat tctacctctg 240 ctttggaaaa gggntatcat acaacattca gtcngctgaa aatggattgg taaaagtntn 3,00 totatacata aacttoagto attittgott gincaaaato atoocaatot toocaaaant 36.0 gaatgggcag teetgtgget ttetteettt teeatattee caacaaggnt aentnaantt 42000 caactottga nnancegett acaacageag tteettagga neeccatgae aggtgggten . 480 aattteecta tnaaaaacaa aactgggeee tacagcaaaa tateeaaatg ggtnagteet 540 tectteetet teccetgant atatacacat atetecttte aanaatanta ttteeccatg 600: 634 cttattcctt cccnaatcta aaccttgaag tgat <210> 657 <211> 958 <212> DNA <213> Homo Sapiens <400> 657 gaaagaaaag catcatgtaa aaatgaaagc caagagatgt gccactcctg taatcatcga 60 tgaaattota coototaaga aaatgaaagt ttotaacaac aaaaagaago cagaggaaga 120 aggcagtgct catcaagata ctgctgaaaa gaatgcatct tccccagaga aagccaaggg 180 tagacatact gtgccttgta tgccacctgc aaagcagaag tttctaaaaa gtactgagga 240 gcaagagctg gagaagagta tgaaaatgca gcaagaggtg gtggagatgc ggaaaaagaa 300 tgaagaattc aagaaacttg ctctggctgg aatagggcaa cctgtgaaga aatcagtgag 360 ccaggtcacc aaatcagttg acttccactt ccgcacagat gagcgaatca aacaacatcc 420 taagaaccag gaggaatata aggaagtgaa ctttacatct gaactacgaa agcatccttc 480 atctcctgcc cgagtgacta agggatgtac cattgttaag cctttcaacc tgtcccaagg 540 aaagaaaaga acatttgatg aaacagtttc tacatatgtg ccccttgcac agcaagttga 600

agacttccat aaacgaaccc ctaacagata tcatttgagg agcaagaagg atgatattaa

cctgttaccc tccaaatctt ctgtgaccaa gatttgcaga gacccacagg actcctgtac

tgcaaacaan acaccgtgca cgggctgtga cctgcaaaaa gtacagcaga gctggaggct

gaggagetne gagaaattge aaccantaca anttecaaag cacgtngaac ettgattece

すすひ ファバレヤムひょ

```
agaataactt gangggtggg cccaaccttg cccaagaaaa ccaccngtga aancaancca
                                                                       900
acggagccct antnggcttt gatttgggaa tttgggaaan gaatncaagg gaggngag
                                                                       958
      <210> 658
      <211> 816
      <212> DNA
      <213> Homo Sapiens
      <400> 658
gggagggaaa gacaaaacgt atttattcca ggccaggtct taaaatgcac actgcacggt
                                                                        60
tecetgttgt tateageace agtaaggaaa gaaegtgeet taaeggeage eecaeceaga
                                                                       120
geetgetgeg tggetgetgt gaggeteece atgaateeae geagtettet teeteaetgg
                                                                       180
tgcagttggt gaggttttct accctcacag caaagggatc cttaactata aattcacggt
                                                                       240
atgcagagaa gaggacagaa tetgatttae tgattgttee teatttaaac catgaettaa
                                                                       3.0.0
tetetatett aggatttaae tatetttatt tietggttaa aattittaaa aaaagtgggg
                                                                       360
agagggtgag agtcgtaagg ggcaatagca atagagatta cactgtgctg acacagagac
                                                                       420
taaattotag toagagtgaa gaccatataa aaggooggot gatggtttaa aggaagtaac
                                                                       480
tacatggagt ctaatcgaga cattcatgan ttacatctca ttattagcct tagtaatgta
                                                                       540
agaaaacaat teteaacaaa aetgggagte cacagttgte aagtatgett teteangeae
                                                                       600
gggtaggtaa aagtetggan aaatgggtte tetecatgee caatgacaaa gcaagacggt
                                                                       660
cctaggtttg aagttaaaaa caggtcccaa ttgcccgggc ggtatccgcc agctcacagc
                                                                       720
tgaatttaan catggaaatc caatggaaaa attggganat acnggcacat tcanaaggct
                                                                      .780
ggtcctttga cttatctcca naacccgggt actggc
                                                                       816
      <210> 659
      <211> 726
      <212> DNA
      <213> Homo Sapiens
                      并是现代的主要的。(Andio Addio)
                      (ACB)转数数数数整点扩充运行。 人名巴尔 (100)
                                                 · Mar.
tgagaaaagt ggtacaaata ctgggaaaaa cctgctcttc tgcgttaagt gggagacaat
                                                                        60
gtcacaagtt aaaagctctt attectatga tgccccctcg gatttcatca atttttcatc
                                                                       120
cttggatgat gaaggagata ctcaaaacat agattcatgg tttgaggaga aggccaattt
                                                                       180
ggagaataag ttactgggga agaatggaac tggagggctt tttcagggca aaactccttt
                                                                       240
gagaaagget aatetteage aagetattgt cacacetttg aaaccagttg acaacactta
                                                                       300
ctacaaagag gcagaaaaag aaaatcttgt ggaacaatcc attccgtcaa atgcttgttc
                                                                       360
ttccctggaa gttgaggcag ccatatcaag aaaaactcca gcccagcctc agagaagatc
                                                                       420
tettaggett tetgeteaga aggatttgga acagaaagaa aagcatcatg taaaaatgaa
                                                                       480
agccaagaga tgtgccactc ctgtaatcat cgatgaaatt ctaccctcta agaaaatgaa
                                                                       540
agtttctaac ancacaaaga agccagagga agaaggcagt gctcatcaag atactgctga
                                                                       600
aaagaatgca tetteeceaa gagaaageea agggtagaea taetgtgeet tgtatgeeae
                                                                       660
ctgcanagca gaagtttcna aaangtactg angagcaang aatctggaga agagtatgaa
                                                                       720
aaatgc
                                                                       726
      <210> 660
      <211> 824
      <212> DNA
      <213> Homo Sapiens
      <400> 660
aggatttaac tatctttatt ttctggttaa aatttttaaa aaaagtgggg agagggtgag
                                                                        60
agtcgtaagg ggcaatagca atagagatta cactgtgctg acacagagac taaattctag
                                                                       120
tcagagtgaa nacccatata aaaggccggc tgatggttta aaggaagtaa ctacatggag
                                                                       180
tetaategag acatteatga gttacatete attattagee ttagtaatgt aagaaaacaa
                                                                       240
ttctcaacaa aactggagtc cacagttgtc aagtatgctt tctcaggcac gggtaggtaa
                                                                       300
```

エ し エ/ しいノい/エマリック

YY W フフバリマダリン

aagtotggan aaatgggtto totocatgoo caatgacaaa gcaagacggt cotaggtttg 360 aggttaagan caggtcccat tgccgggcgg tatccgcagc tcacagctga ntttagcagt 420 ggaatcgagt ggagaatttg gggagataca ggcncagtca gaggctggtc acttgacttt 480 atctccagac cctggtactt gcgtattgga tttgccttat gcaccagttc tctccgtagc 540 etggecanct cetettttt etgetettee teetgtagte tggeeteete caactgetgg 600 getttetggg ettetacete agecattete ttetecaget ecetgeeget etttggetet 660 ctctcagtag cccactgaaa angtccctga acnaaaaaaa ccanaaanng gccctcacaa 720 ctgatttcnt ctctttcttg gggaaccaag ggcccctgaa aaaanaaacg gtgtttggaa 780 caaacentga aacaagenge eteettetge etgteecaat teet 824 <210> 661 <211> 399 <212> DNA <213> Homo Sapiens <400> 661 ggtttgnagg gaaaaanaaa acttttttt cccagnccag ttcttaaant nccccnngcn 60 nggtcccctn tntttttcnc ccccattaag gaaaaaactt gcntnancgg nagccccccc 120 caaaacctnc tgcttggctg ctttaaggnc cccataannc cccccatnnt cctccccac 180 tggtncattg gtnaggtttc ctccccccn ccaaaggnnt ccttacntat aaatcccngg 240 tttncaaaaa aaaananaaa accaatttcn gatnntcccc cttnaancca gnacttaatc 300 cctntctnag gattnaacaa ccttttttn cgggttaaaa tttttaaaaa aattngggaa 360 anggttaaat ccttaggggg aatnocnata aaaattacc -399 <210> 662 <211> 826 <212> DNA <213> Homo Sapiens 数型对抗速度 建整合管 自命行 二十二 24. v.3% <400> 6621, Eller (1994) - 10 € 10.0 € gtcaaatgct tgttcttcccqtggaagttga ggcagccata tcaagaaaaa ctccagccca 60 ;:: gecteagaga agatebetta ggetttetge teagaaggat ttggaacaga aagaaaagca 120 .... tcatgtaaaa atgaaagccasagagatgtgc cactcctgta atcatcgatg aaattctacc 180 . 17.00年6月 ctctaagaaa atgaaagttt ctaacaacaa aaagaagcca gaggaagaag gcagtgctca 240 tcaagatact gctgaaaaga atgcatcttc cccagagaaa gccaagggta gacatactgt 300 gccttgtatg ccacctgcaa agcagaagtt tctaaaaagt actgaggagc aagagctgga 360 gaagagtatg aaaatgcagc aagaggtggt ggagatgcgg aaaaagaatg aagaattcaa 420 gaaacttgct ctggctggaa tagggcaacc tgtgaagaaa tcagtgagcc aggtcaccaa 480 atcagttgac ttccacttcc gcacagatga gcgaatcnaa caacatccta ngaaccagga 540 ggaatataag ggaagtgaac tttacatctg aactacgaaa gcatccttca tctcctgccc 600 gaantgacta aggggatgtt ccattgttaa gcctttcaac ctgtcccngg gaaagaanag 660 aacntttgat gaaacagttt ctacatatgt gccccttgcc cngcaagttg aagacttccn 720 taancgaacc ctnactgatt tcttttgang aaccagaang gntgattttn ccctgtttcc 780 . 826 ctccaatctt ctgtgaacaa gatttggccg aanacccccg aacccc <210> 663 <211> 770 <212> DNA <213> Homo Sapiens <400> 663 gggaaagaca aaacgtattt attccaggcc aggtcttaaa atgcacactg cacggttccc 60 tgttgttatc agcaccagta aggaaagaac gtgccttaac ggcagcccca cccanagcct 120

2420

180

240

getgegtgge tgetgtgagg etececatga atecaegeag tettetteet caetggtgea

gttggtgagg ttttctaccc tcacagcaaa gggatcctta actataaatt cacggtatgc

```
anagaanagg acagaatctg atttactgat tgttcctcat ttaaaccatg acttaatctc
                                                                             300
       tatcttagga tttaactatc tttattttct ggttaaaatt tttaaaaaaa gtggggagag
                                                                             360
       ggtgagagtc gtaaggggca atagcaatag agattacact gtgctgacac agagactaaa
                                                                             420
       ttctagtcag agtgaagacc catataaaag gccggctgat ggtttaaagg aagtaactac
                                                                             480
       atggagteta ategagaeat teatgagttn cateteatta ttageettag taatgtaaga
                                                                             540
       aaacnattet caacaaaact ggagtecaca gttgtcaant ntgetttete aggeaegggt
                                                                             600
       aggtnaaaat ctgganaaat gggttctctc catgcccaat gacaancaan anggtcctag
                                                                             .660. .
       gtttgaagtt aaaaacangt cccattgccg gcggtatccg cagctcacag ctgaatttac
                                                                             720
       cngtggaatc aantggaaaa tttgggaaaa tacnggccca atcaaaaggt
                                                                             770
             <210> 664
             <211> 593
             <212> DNA
             <213> Homo Sapiens
             <400> 664
       gaaganetga geageacage aetggtgaag aagagetgee tggeggaget ceteeggett
                                                                              60
       tacaccaaaa gcagcagctc tgatgaggag tacatttata tgaacaaagt gaccatcaac
                                                                             120
       aagcaacaga atgcagagte teaaggcaaa gegeetgagg ageagggeet getaeceaat
                                                                             180
       ggggageeca gecageacte eteggeecet cagaagagee ttecagaeet ecegecaece
                                                                             240
       aagatgatte cagaacggaa acagettgee ateccaaaga eggagtetee agagggetae
                                                                             300
       tatgaagagg ctgagccata tgacacatcc ctcaatgagg acggagaggc tgtgagcagc
                                                                             3.60
       tectacgagt cetacgatga anaggaegge ageaagggea agteggeece ttaccantgg
                                                                             420
       nectegeegg aggeeggeat eganetgatg egtgaegeee gentetgege etteetgtgg
                                                                             480
       cgcaagaaag tggctgggac agtgggccaa gcagctctgt gtcatcnagg acaacaggct
                                                                             540
       tetgtgetne naateeteea aggaceeeng eeeteagetg gaegtgaace tac
                                                                             593
             <210> 665
 <211> 1024
 <212> DNA
                                                                The Market Service < 213 > Homo Sapiens
                                                                  Machalitek (1976) and a specific
Toda Gilmoga volución de
                        - 372 - ...
                                                                。 日本の管理機関係のあることは、
公司等等基础等等。在200×665 公司等等200×
                                                             Compared the second
 aagagattga agcaaatgaa tggaagaaga aatacgaaga gacccggcaa gaagttttgg
 ya ayaatgaggaa aattgtagot gaatatgaaa agactattgo toaaatgatt gaagatgaac 🐠 120%.
       aaaggacaag tatgacetet cagaagaget tecageaact gaccatggag aaggaacagg
       ccctggctga ccttaactct gtggaaaggt ccctttctga tctcttcagg agatatgaga
                                                                             240
       acctgaaagg tgttctggaa gggttcaaga agaatgaaga agccttgaag aaatgtgctc
                                                                             300
       aggattactt agccagagtt aaacaagagg agcagcgata ccaggccctg aaaatccacg
                                                                             360
       cagaagagaa actggacaaa gccaatgaag agattgctca ggttcgaaca aaagcaaagg
                                                                             420
       ctgagagtgc agetetecat getggaetee geaaagagea gatgaaggtg gagteeetgg
                                                                             480
       aaagggccct gcagcagaag aaccaagaaa ttgaaggaac tgacaaaaat ctgtgatgag
                                                                             540
       ctgattgcaa agctgggaaa gactgactga gacactcccc ctgttagctc aacagatctg
                                                                             600
       catttggctg cttctcttgt gaccacaatt atcttgcctt atccaggaat aattgccct
                                                                             660
       ttgcaganga aaaaaatata cttaanaaaa gcacatgcct actgctgcct gtcccgcttt
                                                                             720
       gctgccaatg caacagccct ggaagaaaac cctatanggn tgcatagtct aaaaagggag
                                                                             780
       ttgtngactn gacagtgctg ggagcctnct agtttccccc cnatgaaagg ttcccttagg
                                                                             840
       ctgctgagtt tggggtttgt gatttaacct taagtttgtt ttaaagtcca ncttaacttt
                                                                             900
       cccaaattgt gtttaaaatt tgtaacnccc cctttggggt cttcccaaca accggtccga
                                                                             960
       tttttttggn gatcggttta accettttaa ttttttagta necagtgggg tttaatttag
                                                                            1020
       ggga
                                                                            1024
```

えしゅうしゅうりょ レン・ン

<210> 666

マヤ ひ フン/ひマルリン

<211> 734

<212> DNA

# <213> Homo Sapiens

***************

<400> 666	
gagacaagat cttgctgtca cccaggatgg agtgcagtgg catgatcatg gctcactgca	60
geettgacet eccaggetee eaceteagee teccaagtag etgggaceae aggeaegtge	120
caccatgccc agctaatttt tattttggta nanacaaggt ttcaccatgt tgcctaggta	180
ggtttcaaac tcctggactc aagtgatcct cctgcctcgg ccttccacag tgttgggatt	240
acaggaataa gccactgtgc ccggcccttt ttctcttctg taacagantt tattactgcc	300
tagctagcag gttatttggc cctcacatgt gttgaggcaa actctatact atattcttac	360
totocanagt tocaaaatoo tttattttta aanaaaaata aacaaacata ottoattotg	420
cccagtatat tetettgate tgtacaaget acgattttaa ttetetttgg gagaggaage	480
atotgttaag ttogaatggg ggatatttoo toataacggt catggotgan aagcoaggac	540
aattatcact taacgaaggt cetttggtge teeetgtgea teagetteat teactggggt	600
caggttetta aggggtetet tecaccaatg tgetagggaa gggetgeeat caectetgtt	660
taacacatag ctactttctt aaaccnataa gcttaaaaaa gangactatg gaattaccaa	720
tggaaggent ataa	734
<210> 667	•
<211> 592	
<212> DNA	
<213> Homo Sapiens	
<400> 667	
gttatgaana cctttccaaa ttcatttgta tttctgttaa atttattttt tacttttaga	60
gtggctatca ttataatgta atttaaaatt atatttgtaa aagtgactat tggagtgagt	120
acgaattttg tttatanatc tatgataaat gcattctccc tntaggaggt agaanagtat	180
acagetgtnt ataataaget tegetatgaa catacattte teaagteaga atttgaacae	240
cagaaggaag agtatgcacg tnttttagat gaangaaacn ataaactatg aatcagagat	300
ngcaanactg gaggaagatn aagaagaact acgtanccag ctgcttaatg tngatctcac	360
anaagacagc aaacgagtgg aacaacttgc tcgagaaaaa gtctatttgt gtccaaaatt	420
aagangttta gaggetgaag tacengaatt aaaggetgaa naggagaatt etgangetea	480
ggtggaaaat gcccaaanaa tacacgtgcg gcagttggct gagatgcacg ctacagtcag	540
atccctggag gctgacaanc aatcanctaa tttacgggca naacgcttgg aa	592
<210> 668	
<211> 373	
<212> DNA	
<213> Homo Sapiens	
<400> 668	60
aaaaaaaaat taagctcttt aattatgtgc acacagattt tagaaaaggt agccttttgt	60 - 120
atatanatac ctttacattc tttaggntga nttttaaatt gtcatctttt ttcaactaca	
gtttttgtnt atagtaaacc anaanatgtg tntggaccct gttatggnca agcatctcaa	
agatgaagan agaattaatg atagttatat ttcactcaaa atgccaaaaa aaaaaattca	240
acaaagtaaa aattttaaaa cttgactcta actagttcct ttttgtttta cattctcaaa	300
ccattgtnaa atattctaaa tatctctgaa aatttctctt ttaatgcttc acttgtntaa	
tcttaaaatc ctg	373
<210> 669	
<211> 661	
<212> DNA	
<213> Homo Sapiens	•
<400> 669	

60

cacacctggt ggtcctgaag acagcccagg acccagggat ctcccccagc cagagtctgt

```
gtgcggaaag ttccagaggc ctcagtgcag gctccctgtc ggagagtgca gttgggcccg
                                                                             120
       tggaggcatg ctgcctggtc atcctggctg cagagagcaa ggtcgctgcg gaggagcttt
                                                                             180
       gctgtctgct aggccaggtc ttccaggttg tttacacgga gtccaccatc gactttctgg
                                                                             240
       acagagegat atttgatggg gcctctaccc cgacccacca cctgtccctg cacagegatg
                                                                             300
       actettetae aaaagtggae attaaggaga eetaegaggt ggaageeage actttetget
                                                                             360
       tecetgaate tgtggatgtg ggtggtgeat caccecacag caagaccate agtgagageg
                                                                             420
       agetgagege cagegeeact gagetgetge aggaetacat getgaegetg egeaccaage
                                                                           ..480
       tgtcatcaca ggagatccag cagtttgcag cactgctgca cgagtaccgc aatggggcct
                                                                             540
       ctatccacga nttctgcatc aacctgcggc agctctacgg ggacagccgc aagttcctgc
                                                                             600
       tgcttggtct gaagcccttc atccctgaaa angacagcca gcacttcnag aacttcctgg
                                                                             660
                                                                             661
             <210> 670
             <211> 401
             <212> DNA
             <213> Homo Sapiens
             <400> 670
       aaattattca cattgcagta aacttctttt taaggtctct gaaagttaca ataggaacat
                                                                              60
       catgtgcaaa actgacagcc gtccaagggc ccagccgaca ggactggctc tccctgcccg
                                                                             120
       ctcggccggg ccctccccga gcggggacac actgcagggc ttggctgaac cctggtggac
                                                                             180
       aaggcaaana neetteeace eegcactgag getegtgtee eteggeaget eeetgeteet
                                                                            240
       tcacagtaaa ngacctgggc cgcccggggc catctgcacc gggcgcctct ccctggccac
                                                                             300
       caccaagggc tgacacgcag gtctgggcag ctccttctgg gaaggcctat gacgactgcg
                                                                             360
       ccgaaggtgt gggtgccccc ccatccactg tccatcatgc c
                                                                             401
             <210> 671
            C<211'> 1347
 11 - 212> DNA
                                                                   Same and the second states
Homo Sapiens
                                                                   The model of the second
  Branch Carrent Conference of
                           - 120
  400> 671
                         er British and
                                                                   等。在1998年中的1996年1997年
  े राज्यक्षेत्रविष्टिं agegratateaegegraeeeggag categegtge aggageeatg gegegggage कर्मा क्षेत्र 60 हुन सुन
       tataccacga agagttegee egggegggea ageaggeggg getgeaggte tggaggattg
    agaagetgga getggtgeee gtgeeceaga gegeteaegg egaettetae gteggggatg 👉 180 💮
       cctacctggt gctgcacacg gccaagacga gccgaggctt cacctaccac ctgcacttct
       ggctcggaaa ggagtgttcc caggatgaaa gcacagctgc tgccatcttc actgttcaga
                                                                             300
       tggatgacta tttgggtggc aagccagtgc agaatagaga acttcaagga tatgagtcta
                                                                             360
       atgactttgt tagctatttc aaaggeggte tgaaatacaa ggetggagge gtggeatetg
                                                                             420
       gattaaatca tgttcttacg aacgacctga cagccaagan gctcctacat gtgaagggtc
                                                                             480
       gtanagtggt gagagccaca gaattcccct tagctgggac agtttcaaca agggtgactg
                                                                             540
       cttcatcatt gaccttggca ccgaaattta tcanttggtg tggttcctcn tgcaacaaat
                                                                             600
       660
       ggtctgaact aattgtcgtg gaanaaggaa gtgaaccctc agaacttata aaggtcttag
                                                                             7.20
       gggaaaagcc agagcttcca gatggaggtg atgatgatga cattatanca gacataagta
                                                                             780
       acaggaaaat ggctaaacta tacatggttt cagatgcaag tggctccatg agagtgactg
                                                                             840
       tggtggcana agaaaacccc ttctcantgg caatgctgct gtctgaagaa tgctttattt
                                                                             900
       tggaccacgg ggctgccaaa caaattttcg tatggaaagg taaagatgct aatccccaag
                                                                             960
       agaggaaggc tgcaatgaag acagctgaag aatttctaca gcaaatgaat tattccaaga
                                                                            1020
       atacccaaat tcaagttctt ccagaaggag gtgaaacacc aatcttcaaa cagttttta
                                                                            1080
       aggactggag agatnaacga tcagagtgat ggcttcggga aagtttatgt cacagagaaa
                                                                            1140
       gtggctcaan tnnaacnaat tccctttgat gcctcnnaat tacncagttc tccgcagatg
                                                                            1200
       gcagcccagc acaatatggt ggatgatggt tctggccaag tggaaatttg gcgtgtncaa
                                                                            1260
       aacaatggta ggatccaagt tgaccnnaac tectatggtg acteccatgg tggtgactge
                                                                            1320
       tacttcatac tctacaccta tccctga
```

1 0 3/00/0/270//

 $\mathcal{G}^{\mathcal{F}}$ 

SUPPLEMENT

计间接数据 1.1

<210> 672 <211> 3441 <212> DNA <213> Homo Sapiens

<400> 672

atgtttctaa cattgaactc taaggaagct ggtgaacaaa cacgccatat gtatgcagaa - 60 cacttaacag aattatgeta tgttgtetgt ttttgtttgt atttettgte ettgetgaag 120 attgacttga aatcttaaac taagttctcc ctctttatag gcggtgacag tgatcctcca 180 ttaaagcgta gcctggcaca gaggctaggg aagaaagttg aagctccaga aactaacatt 240 gacaaaacac caagaaaagc tcaagtttcc aagtctctta agggagcgat taggcatgtc 300 aqctqatcca gataatgagg atgcaacaga taaagttaat aaagttggtg agatccatgt 360 gaagacatta gaagaaatto ttottgaaag agccagtcag aaacgtggag aattgcaaac 420 taaactcaag acagaaggac cttcaaaaac tgatgattct acttcaggag caagaagctc 480 ctccactate egtateaaaa eettetetga ggteetgget gaaaaaaaac ateggeagea 540 ggaagcagag agacaaaaaa gcaaaaagga tacaacttgc atcaagctaa agattgatag 600 tqaaattaaa aaaacaqtag ttttgccacc cattgttgcc agcagaggac aatcagagga 660 geetgeaggt aaaacaaagt ctatgeaggg aggtgeacat caagacgetg gaagaaatta 720 aactggagaa ggcactgagg gtgcagcaga gctctgagag cagcaccagc tccccgtctc 780 aacacgagge cactecaagg geaaggegge tgetgegaat ceceaaaaga acagggatga 840 aaqaaqaqaa qaaccttcag gaaggaaatg aatttgattc tcagagcatt attataactg 900 aaqctaaaqa aqcttcaqqt gagaccacag gagttgacat cactaaaatt ccagtcaaga 960 qatqtqaqac catgagagag aagcacatgc acaaaacaac aggagaggga aaaatcagtc 1020 ttqacacctc ttcggggaga tgtagcctct tgcaataccc aagtggcaga gaaaccagtg 1080 ctcactqctq tgccaggaat cacacggcac ctgaccaagc ggcttcccac aaagtcatcc 1140 caqaaqqtqq aqqtagaaac ctcagggatt ggagactcat tattgaatgt gaaatgtgca 1200 gcacagacct tggaaaaaag gggtaaagct aaacccaaag tgaacgtgaa gccatctgtg 1260 gttaaagttg tgtcatcccc caaattggcc ccaaaacgta aggcagtgga gatgcacgct getgtcattg ccgctgtgaa ccactcagct ccagcagtgt cctacaggaa cccccagcca 178 1380 aaaaaqqcaqc tqtqqctgtt gtcccgcttg tctctgagga caaatcagtc actgtgcctg :: 1440 aagcagaaaa tectagagac agtettgtge tgeetecaae eeagteetet teagatteet The state of the cacced can be a supplied that the state of the state REPAREMENT BETCHGOOD AACAGGAAAG CCCCCACTCT CTGTGGAGGA TGATTTTGAGAAACTAATAT 34.1620 gggagatttc aggaggcaaa ttggaagctg agattgacct ggatcctggg aaagatgaag 1680 atgacettet gettgageta teagaaatga ttgatagetg aagggtggta gtgaggacae 1740 tttaaaaaaa aatcqccaaa aaactggact tagtttcatc tattgtaaca tttacctgag 1800 atgatcattt ctttagtcta gaatttgccc caaatcagaa gtatacctct gaattatctg 1860 tatgtgtcct ggattccttg gggtcagatt tttaaagtta ctttataacc attttgtcca 1920 tttgatgcca ttgtttatca tcttttgaga aaaaagttct gtcataccct tctctccaca 1980 aaaaaagagac tgagagggag atcaagtgaa agggtgcaag cgaacttagt gactccttga 2040 qqtqtttqtc agttttggct tttttcttct ttgttgtatt ctttatgtat tgtcttgatg 2100 tacttaatat tacctgagtt tgaaatggat gaagacagct gctaccatta aggaccaaat 2160 tttatgctac cactaaacaa aaatacccac tcagtctgtg ttaaattgta tgtcttttta 2220 aaqqtattta aagattcaac taagctitaa agagggctga gcagctcagg aagcctgtaa 2280 tqtqqqcata actctttgga cctgatcttg atgcttctgc tgctctgtta gcctctgaag 2340 agcaatatct aatttattat tactgtaatt ttttaaaaagg ctttaaagtg cctcaggggt 2400 cccctgaaac taattttcta tttctgggat tccctggatt cattatatga gatggtgaca 2460 tgattagagg aattetttt tagtatgaaa attgteeett ttettettea gtaettgeet 2520 ccttgctggc attgaattaa cacagggaca aaatttggtt aattttttat ttctaactct 2580 cccaacaaac ccctgttgcc cagtatttgt ttggtggcct ttaaccacct gagggaaaaa 2640 atgagettat teaagetgee aatatttate tatgggetgt ageagtaeae tgaattgtae 2700 2760 totgaattga gttttctttt ottgatgttg gtttccttca tatcacctca aggtttagat 2820 ttgtgaagga ataagcatga tggaaataat agtcttgaaa ggagatatgt tgtatataat 2880 caqqaqqaag aggaaggaag gacttaccca ttttgatatt ttgctgtagg tggccagttt 2940

```
tgtttctcat agggaaatnt gacccacctg tcatgttggc tccctaagga actgctgttg
 taagcggctc atcaagagtt gaacttcacg tagccttgtt gggaatatgg aaaaggaaga
                                                                       3000
 aagccacagg actgcccatt cagttttggg aagattggga tgattttgca caagcaaaaa
                                                                       3060
 tgactgaagt ttatgtatag acacacettt accaatecat nttcagetga etgaatgttg
                                                                       3120
 tatgatagee ettetecaaa geagaggtag aatgtteagg ttteaceatg gattttetae
                                                                       3180
 ttatttcgtt tttggaatca ccttacagat tccaggtccc ttttgtatat attctttatt
                                                                       3240
 cttttgcttt tttaaaaaat aattttgttt catatttaaa gcacttgtat tagtcaatgt ---
                                                                       3300
 ttcgtgtfcc gcattatttg aaccatttgc ccttacagaa agagaaatac ttgtttgtgt
                                                                       3360
 tttaaataaa actgatgtag g
                                                                       3420
                                                                       3441
       <210> 673
       <211> 1016
       <212> DNA
       <213> Homo Sapiens
       <400> 673
 gtcaaatgct tgttcttccc tggaagttga ggcagccata tcaagaaaaa ctccagccca
 geeteagaga agatetetta ggetttetge teagaaggat ttggaacaga aagaaaagca
                                                                         60
 tcatgtaaaa atgaaagcca agagatgtgc cactcctgta atcatcgatg aaattctacc
                                                                        120
 ctctaagaaa atgaaagttt ctaacaacaa aaagaagcca gaggaagaag gcagtgctca
                                                                        180
 tcaagatact gctgaaaaga atgcatcttc cccagagaaa gccaagggta gacatactgt
                                                                        240
 geettgtatg ccacetgcaa agcagaagtt tetaaaaagt actgaggage aagagetgga-
                                                                        300
gaagagtatg aaaatgcagc aagaggtggt ggagatgcgg aaaaagaatg aagaattcaa
                                                                        360
gaaacttgct ctggctggaa tagggcaacc tgtgaagaaa tcagtgagcc aggtcaccaa
                                                                        420
atcagttgac ttccacttcc gcacagatga gcgaatcaaa caacatccta agaaccagga
                                                                        480
ggaatataag gaagtgaact ttacatctga actacgaaag catcettcat ctcctgcccg
                                                                        540
agtgactaag ggatgtacca ttgttaagcc tttcaacctg tcccaaggaa agaaaagaac
                                                                        600
atttgatgaa acagtttcta catatgtgcc nccttgcaca gcaagttgaa gacttccata
                                                                        660
aacgaacccc taacagatat catttgagga gcaagaagga tgatattaac ctgttaccct
                                                                        720
ccaaatcttc tgtgaccaag atttgcagag:acccacagac tcctgtactg caaaccaaac
                                                                        780
accettecace gecteteace tecaaaagtt acagcagage tegageetega geagetegag
                                                                       840
aaattgcaac aatacaaatt caaagcacgt gaacttgatc ccagaatact tgaaggtggg
                                                                       900
cccatcttgc ccaagaaacc acctgtgaaa; ccacgccgag ccctatgcct cgtgcc .
                                                                       960
                                                                      1016
      <210> 674
      <211> 1135
      <212> DNA
      <213> Homo Sapiens
      <400> 674
aggaattggg acaggcagaa ggaggcngct tgtttcangg tttgttccaa acaccgtttn
ttttttcagg ggcccttggt tccccaagaa agagangaaa tcagttgtga gggccnnttt
                                                                        60
ntggtttttt tngttcaggg acnttttcag tgggctactg agagagagcc aaagagcggc
                                                                       120
agggagetgg agaagagaat ggetgaggta gaageeeaga aageeeagca gttggaggag
                                                                       180
gccagactac aggaggaaga gcagaaaaaa gaggagntgg ccaggctacg gagagaactg
                                                                       240
gtgcataagg caaatccaat acgcaagtac cagggtctgg agataaagtc aagtgaccag
                                                                       300
cctctgactg ngcctgtatc tccccaaatt ctccactcga ttccactgct taaattcagc
                                                                       360
tgtgagetge ggatacegee eggeaatggg acetgttttt aaetteaaae etaggaeegt
                                                                       420
cttgctttgt cattgggcat ggagagaacc catttntcca gacttttacc tacccgtgcc
                                                                       480
tgagaaagca tacttgacaa ctgtggactc cagttttgtt gagaattgtt ttcttacatt
                                                                       540
actaaggcta ataatgagat gtaactcatg aatgtctcga ttagactcca tgtagttact
                                                                       600
tcctttaaac catcagccgg ccttttatat gggtcttcac tctgactaga atttagtctc
                                                                       660
tgtgtcagca cagtgtaatc tctattgcta ttgcccctta cgactctcac cctctcccca
                                                                       720
ctttttttaa aaattttaac cagaaaataa agatagttaa atcctaagat agagattaag
                                                                       780
```

U 21 U U D U 1 2 . U . J

840 900

** ** /// U-74/00

大部居于高水山

tcatggttta aatgaggaac aatcagtaaa tcagattctg tcctcttctc tgcataccgt

	gaatttatag ttaaggatcc ctttgctgtg agggtagaaa acctcacca	a ctgcaccagt	960
	gaggaagaag actgcgtgga ttcatgggga gcctcacagc agccacgca	g caggetetgg	1020
	gtggggctgc cgttaaggca cgttctttcc ttactggtgc tgataacaa	c agggaaccgt	1080
	gcagtgtgca ttttaagacc tggcctggaa taaatacgtt ttgtctttc	c ctccc	1135
	godgogogon i sam g		
	<210> 675		
	<211> 1067		
	<212> DNA		
	<213> Homo Sapiens	•	
	<u> </u>		
	<400> 675		
	attttaaaga aacttcacag agctgcttca gtcggggatt tgaagaagc	t gaaggaatac	60
	cttcagatca agaaatatga tgtaaatatg caggacaaaa aatacagaa	c acctttgcac	120
	ctagcctgtg ctaatggaca tacagatgtt gtacttttcc taattgagc	a acaatgcaaa	180
-	ataaatgtcc gggatagtga aaacaaatcc ccattgatta aggcagtac	a gtgtcaaaat	240
	gaggattgtg cctactattc ttctaaactt tggtgcagac ccagatctg	a gggatattcg	300
	ttataatact gttcttcact atgctgtttg tggtcaaagt ttgtcatta	ig ttgaaaaact	360
	gcttgaatac gaagctgatc ttgaagcgaa aaataaggat gggtatact	c cactattagt	420
	tgccgttatt aacaataatc caaaaatggt aaaatttctt ctggagaaa	ıg gggctgatgt	480
	gaatgettea gataattate aaagaacage cettattett getgteagt	g gtgaaccacc	540
	atgtttagta aagcttotto ttoagcaagg tgtggaatta tgttacgaa	ag gtattgtgga	600
	ttcacagctg aggaatatgt ttatttccat ggttttactg catagatac	cc cacaattcac	660
-	tgcgagccat ggaaagaaga aacatgctaa atagacacct tattcttgg	gc-actacatgtg	720
	actaaaggaa gatatggaac ccatttctac aatttcttg ccgcttcct	t gaattggaaa	780
	aatgtacttt gaaagaaccg gttaagtgaa ctatgataat atttttgc	g actacccagt	840
	tgaagaaaaa gtttcgttaa ttggatggga ttttttttt tcacgttag	ga agaatgaatg	900
	aagaaatttt aaaagataaa cattatattg tgaaccatca gctgaaaa	ga taaatttgtg	960
	ttcaatatat aggagaaaaa atttgtgtca aaatgttgaa tggaataa	ta atgagaaact	1020
	gtgttaggca tgtattaaaa catttaaata aaataaaaat acatttc	* ***	1067
	The second secon	ing wager and it	
	<210> 676 জন্মত ক্রেড্রের স্থা	300	
	<211> 784	197000	
	<212> DNA ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	. V. P	
	<213> Homo Sapiens		
		,	
	<400> 676		
	aaaagaattc tacaagattg tggaattcac aatctagtat tgatcaaa	aa ttggcaaatc	60
	aaattaatga tettagacaa aetgteattt ggatgggaga eagaetea	tg agcttagaac	120
	atcgtttcca gttacaatgt gactggaata cgtcagattt ttgtatta	ca ccccaaattt	180
	ataatgagtc tgagcatcac tgggacatgg ttagacgcca tctacagg	ga agagaagata	240
	atctcacttt agacatttcc aaattaaaag aacaaatttt cgaagcat	ca aaagcccatt	300
	taaatttggt gccaggaact gaggcaattg caggagttgc tgatggcc	te geaaatetta	360
	accetgteae ttgggttaag accattggaa gtactacgat tataaate	te acattaatee	420
	ttgtgtgcct gttttgtctg ttgttagtct gcaggtgtac ccaacago	co ogaagagaca	÷. 480°
	gcgaccatcg agaacgggcc atgatgacga tggcggtttt gtcgaaa	iya aaagggggaa	540
	atgtggggaa aagcaagaga gatcaaattg ttactgtgtc tgtgtaga		600
	tgggagactc cattttgtta tgtgttaaga aaaattcttc tgccttg	aya ciciyetaat	660
	ctatgacett acceccaace cegtgetete tgaaacgtgt getgtgt	aa cucayggttg	720 780
	aatggattaa gggcggtgca ggatgtgctt tgttaaacag atgcttg	aay yeayeatget	780 784
	cctt		784

<210> 677

1 (40) - 100 (41) - 100 (41) - 100 (41)

<211> 1362

<212> DNA

<213> Homo Sapiens

<400> 677 ·

ggcacgagct gggcattaat gaggatcatt ctgagggtga tgaaaaatct gagaaggaaa 60 ctattatggc tcaccagccg actgatgtgg agtccacttt attgcaagtt gcaaggaaca 120 agaatactgc catccgtgaa gaactcaacc agctgaaaaa tgaaaacaga atgttaaagg 180 acaggttgaa tgcattgggc ttttccctag agcagaggtt agacaattct gaaaaactgt 240 ttggctatca gtccctgagc ccagaaatca cccctggtaa ccagagcgat ggaggaggaa 300 ctctgacttc ttcagtggaa ggctctgccc ctggctcagt ggaggatctc ttgagtcagg 360 atgaaaatac actaatggac catcagcaca gtaactccat ggacaattta gacagtgagt 420 geagtgaggt etaccagece etcacatega gegatgatge getggatgea cacatetete 480 teteagagte ggaaggeate teteageata gagegeteee ggaaggggag cagegggaat 540 gccagtgaag tgtccgtggc tctgcctgac ttnacgcata caccagatgg nagagaacca 600 acacagtaca agtgagggac tccaggcaac cctgcaagag ctagctgatt tacagcagat 660 tacccaggaa ctgaatagtg aaaacgaaag gcttggagaa gagaaggtta ttctgatgga 720 gtctttatgt cagcagagcg ataagttgga acactttagt cgacagattg aatacttccg **-7**-8-0ctctcttcta gatgagcatc acatttctta tgtcatagat gaagatgtaa aaagtgggcg 840 ctatatggma ttagagcaac gttacatgga cctcgctgag aatgcccgtt ttgaacggga 900 gcagcttctt ggtgtccagc agcatttaag caatactttg aaaatggcag aacaagacaa 960 taaggaaget caagaaatga taggggcaet caaagaaege agteaceata tggagegaat 1020 tattgagtct gagcagaaag gaaaagcagc cttggcagcc acgttagagg aatacaaagc 1080 cacagtggcc agtgaccaga tagagatgaa tcgcctgaag gctcagctgg agaatgacaa 1140 gcagaaagtg gcagagctgt attctatcca taactctgga gacacatctg atattcagga 1200 cctcctggag agtgtcaggc tggacaaaga aaaagcagag actttggcta gtagcttgca ----1-260 ggaagatetg geteatacee gacatgatge caategatta caggatgeea ttgetaggta 1320 gaggatgata ccgagcctcc aagaagagct agaacaaatt ga 1362

<210> 678

<211> 1771

<213 > Homo Sapiens

电位 医胸膜性神经内部检查性病 医肾炎

# <400> 678% #Codemic 15

agccagegge agcaggetga geteceagge tgacatetgg geagggetga tgggeagett 60 ctggccatct ggtgaccagg tgtgccgcaa gtwktwwkta tatgcacagc ccctttccta 120 ataacccaca ttctaggtta cgtagacacg ttaaactcct attctagaac atcgtgcttg 180 aatgcagacc cctcagccca caatcgggct ggctgggcct cctgtgagcc ctcattgcat 240 ccagtctgtg gggcagtgac cccgcttcca ctggtggctg gtcttcctca tggtgctatg 300 caggtgccaa acacagttat attctcaaag gtacaggtct tgtctggaca ttgttcaaac 360 caatagetae tgegttagge acaegggaga tecetattee caaaaatage tgttgagtte 420 tggcctgaga gcatctccag tgaccacctt taaataaggc tttggttcaa acagcatgga 480 cccagcacct ggggagggtg ggcacagggg gcatggaccc agtacctggg gagggcgggc 540 atggtggtag gagacaactc aaccactgag tettggaggt eetgeettgg eeaeggaggg 600 cagtggctgc cctcacaaga agagtgaaga cactttcttt aactctgtcc taggagaatt 660 atgtgttagt gactcagtga gtttaaatga cactgcctgg rctccctaaa gttgtttact 720 tttstcctat ttrctgcktt awtccttgct ctcaccatgc taatgtacag atgttgttta 780 gatttctatg cttattgaaa caatgtaact gtgggactaa cagaacagga gcgaccttgt 840 ccagcattgc tcgtaacaaa acaaaaatgt taactagaaa aactccttat gatgaagaaa 900 tctaaagcca gagctgggac tccaaacccc ttccagggtg gaagacaggt cgctgagtcc 960 aggcaagggg cccccgtaac tgcttcccgc cagaaagccc agccgcgtga gtkcagcagc 1020 agcaccccag ccctggcgtg gccgcaccac ggcctctaga tactcttcta gctcaggctg 1080 aacacgeetg gattgtgteg geegggacag eecegteagt gtggggeage tgaeceaegt 1140 ctgtgtgaac atgctcctcc aaactaggac ggtgaagggc ccagggcgct gggaactgcc 1200 aggogetgae teteettetg ggtteteace ageaceggaa eccaceceag ecaatagtea 1260 ggaagtgccg cggccgagcc ttcatcaacc ctagtgagtt tcccacagaa ctgaatccct 1320 tttcccaaat tcagctgtgc atgagccctt tttgtttggt gccctggagc actagtgtag 1380 ttcaatattc tcttcagaag gaaaactcca gcagccaccg gcctgcagga tgtgtgctga 1440

gcccacatga cctgaatgga cgggtcatgt gggaagggcc ctggtggaa ctgtgggcca 1500 caeggctgaa ttcttccaat acggaagcc cgagctggaa gctcacacgc tgtggggcaa 1560 cccagagttg ctggaagctt tacaggggtg cgtagctaat ggcgtcggtg tcgctcggtc 1620 gctgtggaag ggtaccccgc tattggggca gctcctcccg gcatgctcaa gtctcaaagt 1680 acttgtagat cgcgtcacat acagtatcac gttctgccaa tcgggtcgtt cagtccgtac 1740 catttcatta atgtccagtg tggatttgat g

<210> 679

<211> 1367

<212> DNA

<213> Homo Sapiens

<400> 679

	•					
ctagtggatc	caaagaattc	ggcacgagga	aacaagagcc	ctgaaagatg	aaatagatgt	60
tcttagggct	acctctgata	aagcaaataa	actggagtca	acagttgaga	tatatcgtca	120
gaagctacaa	gatctgaatg	accttcgcaa	gcaggtgaaa	actttacagg	aaaccaacat	180
gatgtatatg	cataatacag	tcagcttaga	agaagaatta	aaaaaagcaa	atgcagcacg	240
tacacaatta	gaaacataca	aaaggcaggt	tcaagatctt	catgttaaac	tttcctccga	300
atccaagagg	gcagacacac	tagcgtttga	aatgaagcgg	cttgaagaaa	aacatgaagc	360
tttacttaaq	gaaaaagaga	gactaattga	gcagcgtgat	actttgaaag	aaacaaatga	420
agagettega	tgttcacaag	tacaacagga	ccacctaaac	caaacagatg	catctgctac	480
aaaaagttat	gagaatettg	ctqctgagat	tatgccagtg	gaatataggg	aggtgtttat	540
togactocaa	catgaaaata	agatgetteg	cttacagcaa	gaaggctctg	agaatgaacg	600
tattgaggaa	cttcaggage	agctagaaca	gaaacaccgt	aaaatgaatg	aactggaaac	660
taaacaaaaa	ctgagcaaag	agcgtattag	agaattgcag	cagcagattg	aggacctcca	720
gaaatettta	caggaacaag	gttccaagtc	tgaaggcgaa	agttccagca	aattaaagca	780
gaaattagaa	geteatatog	aaaaactcac	agaggtccat	gaagaattac	agaagaaaca	840
acaactcatt	gaagatette	agccagatat	aaatcaaaat	gtacaaaaga	tcaatgaact	900
taaaactact	· cttcadaada	aagatgaaga	statgaaagca	atggaggaaa	gatataaaat	960
gaageegee	. eeeedgaaga	atotaataaa	aactttggat	cccaaqttaa	atccagcatc	1020
gracerggag	atagteagaa	. degeddeddi	gacagagaaa	gagagaagaa	ttgagattct	1080
agutgaaata	tagecactag	. gaaagtagee	etgattatgaa	gaaaactcat	tgtttctgcg	1140
ggagagugaa	l Lycalaycay	attocacasa	v:ctgaccactga v:ctgaccactga	aatctagact	tgtgagcggc	1200
tggtataata	a agagiciago	testasstas	. act cct ccc	gatettett	adcacaacaa	
ggtggtgcct	gcagtgacac	: cgg.gcg.gc	: tatattaaaa	tccctcctac	agcgcagcaa	1320
cggcacatca	a ccaacaccag	aayaaatctc	griaaag	222222	aacatctgat	1367
taaactgcaa	a aaaaaacaaa	a acaaaacaaa	aaaaaaaaa	agaadac	•	1307

<210> 680

<211> 2545

<212> DNA

<213> Homo Sapiens

<400> 680

ggatccaaag attcggcacg aggcggagtc gcagcetcgg teccggagec cacettegec 60 tegecettge ecagectgeg gtgatggagg eggecaceae actgeaceca ggecegegee 120 cggcgctgcc cctcgggggc ccgggcccgc tgggcgagtt cctgcctcca cccgagtgcc 180 eggtettega acceagetgg gaagagtteg eggacecett egettteate cacaagatee 240 ggcccatagc cgagcagact ggcatctgta aggtgcggcc gccgccggat tggcagccac 300 catttgcatg tgatgttgat aaacttcatt ttacgccacg tatccagaga ctgaatgaat 360 tggaggccca aactcgtgta aaattgaatt tettggacca gattgcaaag tactgggagt 420 480 tacagggaag tactctgaaa attccacatg tggagaggaa gatcttggac ttatttcagc ttaataagtt agttgcagaa gaaggtggat ttgcagttgt ttgcaaggat agaaaatgga 540 ccaaaattgc taccaagatg gggtttgctc ctggcaaagc agtgggctca catatcagag 600 ggcattatga acgaattete aacceetaca acttatteet gteeggagae ageetaaggt 660 gtttgcagaa gccaaacctg accacagaca ctaaggacaa ggagtacaaa ccccatgata 720 ** ひ クタ/ひつかひい

ttccccagag gcagtctgtg cagccttcgg aaacgtgccc cccagcccga cgagcaaaac 780 gcatgagagc agaggccatg aatattaaaa tagaacccga ggagacaaca gaagccagaa 840 ctcataatct gagacgtcga atgggttgtc caactccaaa atgtgaaaat gagaaagaaa 900 tgaagagtag catcaagcaa gaacctattg agaggaaaga ttatattgta gaaaatgaga 960 aggaaaagcc caagagtcga tctaaaaaaag ccaccaatgc tgtggacctg tatgtctgtc 1020 ttttatgtgg cagtggcaat gatgaagacc ggctactgtt gtgtgatggc tgtgatgaca 1080 gttaccatac cttttgcttg atcccacctc tccatgatgt tcccaaggga gactggaggt 1140 gtcctaagtg tttggctcag gaatgtagta agccacaaga agcatttggc tttgaacaag 1200 cagccaggga ctataccctc cgtacttttg gggaaatggc agatgcgttc aaatctgatt 1260 acttcaacat gccagtccat atggtcccca cagagettgt tgagaaagaa ttttggagac 1320 tagtaagcac tattgaggag gatgtcacag tggaatatgg agctgacatt gcctcaaagg 1380 aatttggcag tggctttcct gtccgagatg ggaaaatcaa actctcacct gaggaagagg 1440 agtatettga tagtggetgg aatttgaaca acatgccagt gatggagcag tetgteettg 1500 cacatattac tgctgatata tgtggcatga aacttccttg gttgtatgtg ggaatqtqct 1560 tttcttcatt ctgttggcac attgaagacc actggagcta ttcaattaac tacttgcact 1620 ggggtgagcc aaaaacctgg tatggagtcc cagggtatgc tgctgagcag ctagaaaatg 1680 taatgaagaa actageteea gaactetttg tgteecagee ggateteete cateagettg 1740 tgaccatcat gaaccccaat accetgatga ctcatgaagt gcctgtttac cgaactaatc 1800 agtgtgctgg ggagtttgtg attacatttc caagagccta ccacagtgtt ttaaccaggg 1860 ttttaatttt gctgaggctg ttaacttctg cactgttgat tggctgccat taggccgaca 1920 gtgtgtggag cattatcgct tgcttcatcg atattgtgtg ttttcccatg atgagatgat 1980 ctgcaagatg gcttccaagg ctgatgtatt agatgttgta gtggcttcaa ctgttcagaa 2040 agacatggcc attatgattg aggatgagaa agctttaaga gaaactgtcc gtaaattggg 2100 agtgattgat tcggaaagaa tggattttga gctgttgcca gatgatgaac gtcagtgtgt 2160 aaaatgcaaa actacatgct tcatgtctgc catctcctgt tcttgtaaac ctggccttct 2220 tgtttgcctg catcatgtaa aagaattgtg ttcctgtcct ccttataaat ataaattgcg 2280 gtataggtac acgctggatg atctctaccc tatgatgaat gcattgaagc ttcgagcaga 2340 atettacaac gaatgggeet tgaatgtgaa tgaagetttg gaggeaaaga teaacaagaa :2400: agocaaatta aagtcaacaa aacattaaaa aaaaaaaaa aaaactcgag agtacttcta 🛶 2520. 🕁 🚓 🚓 gagcgccgcg ggcccatcga ttttc 🐇 相约**2.5.4.5**要00 图61 [1] radigationing duties, inc. to the to Sectors of the section of the sectio ्रिकार सम्बद्धाः हैकिया विकास स्थान । <211> 1745 42.<212> DNA . Barbara Barbara <213> Homo Sapiens <400> 681 ctagtggatc caaagaattc ggcacgaggg aagatggctt cgtttcggaa gctaacgctt 60 tetgaaaaag tgeegeeaaa teateeeagt eggaaaaagg ttaaetteet agatatgtet 120 ctagacgaca ttataatcta taaagagtta gaagggacaa atgctgaaga agaaaagaat 180 aaaagacaga accatagtaa aaaggaatcg ccttcaagac agcaatcaaa agctcataga 240 categocate ggagaggeta etcaagatge agaagcaact etgaggaagg aaatcatgat 300 aaaaaaccat cccaaaaacc ttctggattc aagtctggac aacacccttt aaatgggcag 360 cctttaattg agcaggagaa gtgcagtgac aattatgagg cccaagcaga gaagaatcaa 420 ggccagtcag aggggaacca gcatcaatca gaaggaaatc cggacaaatc agaagaatcc 480 cagggccaac cagaagaaaa tcatcattct gagcgatccc gaaaccactt agagagatct 540 ctttctcagt cagacagatc tcaagggcag ctaaagagac atcatcccca atatgagaga 600 teteatggce aatacaagag ateteatggt caatetgaga gateteatgg ceacteagag 660 agateteatg gteacteaga gagateteat ggteacteag agagatetea tggteactea 720 aagagatete gtagecaggg agatettgtg gacacteaga gtgateteat agecacteag 780 agagatetea tagecaetea gaaagatete atagecaete agagagatet catagecaet 840 cagagagate teatagteae teagagagat etegtggeea etgagagaga teteataaat 900

960

1020

cagtcaggga gatctcatgg ccaatcagaa agacatcaga gatactcaac aggtäaaaät

acaataacta cttaatcatc agaacaatgt gttgaattct gtggaaatag aaaagcatat

```
atctatattc taatggctaa atatgtattt gttgaaacat gtatattggg acaaagacat
                                                                1080
aaatattaga atggaggtaa tacatacata gtatcaatat tgtttcaact tgatqtcctc
                                                                1140
taagetatea teeagttace caagatgtee cattaagttg tteeeggtag gtetgettte
                                                                1200
cctggaagag ccgtatgtac tcagcctttc ctattgggcc ttccccacaa ttagaatatt
                                                                1260
ttgacttagt gtcctgtccc ccttggacgt tccaacttga cttagtgtcc agtgccctt
                                                                1320
qqacattcca acctggtagg taagctaatc taacaactaa ctqccaaatt qataatatat
                                                                1380
aatctatgat aatgaatate tettttgtgt eteetteeta agecateete agagagteet
                                                                1440
tagcagacaa atggtagatg tatctttggg cagctgaact tttctgcttt cctcaaatca
                                                                1500
gaccatatga gaggatatat tctatgcata gatgtaatgc taaccttctg aatatatttt
                                                                1560
quatacattt atatattcac tgttgcctta taaaactgtt aqqqtaqqtc tqtctaccct
                                                                1620
agcaaaagaa acacagaaat ttaaatgtac tgggagttat kkkkttaaaa acacaagata
                                                                1680
1740
aaaac
                                                                1745
```

<210> 682

77 W 22107402

<211> 1745

<212> DNA

<213> Homo Sapiens

#### <400> 682

5万色的 海洲

and the second

ctagtggatc caaagaattc ggcacgaggg aagatggctt cgtttcggaa gctaacqctt 60 tetgaaaaag tgeegeeaaa teateeeagt eggaaaaagg ttaaetteet agatatgtet 120 ctagacgaca ttataatcta taaagagtta gaagggacaa atgctgaaga agaaaagaat 180 aaaagacaga accatagtaa aaaggaatcg ccttcaagac agcaatcaaa agctcataga 240 catcgccatc ggagaggcta ctcaagatgc agaagcaact ctgaggaagg aaatcatgat 300 aaaaaaccat cccaaaaacc ttctggattc aagtctggac aacacccttt aaatgggcag 3.60 cctttaattg agcaggagaa gtgcagtgac aattatgagg cccaagcaga gaagaatcaa 420 ggccagtcag aggggaacca gcatcaatca gaaggaaatc cggacaaatc agaagaatcc 480 cagggccaac cagaagaaaa tcatcattct gagcgatccc gaaaccactt agaagagatct 540 ctttctcagt cagacagatc tcaagggcag ctaaagagac atcatcccca atatgagaga 600%---teteatggee aatacaagag ateteatggt caatetgaga gateteatgg ceaeteagag 660% 75 agatotoatg gtoactoaga gagatotoat ggtoactoag agagatotoa tggtoactoa 720 aagagatoto gtagocaggg agatottgtg gacactoaga gtgatotoat agecactoag 780 🕸 🗥 agagatetea tagecaetea gaaagatete atagecaete agagagatet catagecaet 840 cagagagate teatagteae teagagagat etegtggeea etgagagaga teteataaat 900 🐫 cagtcaggga gatctcatgg ccaatcagaa agacatcaga gatactcaac aggtaaaaat 960 acaataacta cttaatcatc agaacaatgt gttgaattct gtggaaatag aaaagcatat 1020 atctatattc taatggctaa atatgtattt gttgaaacat gtatattqqq acaaaqacat 1080 aaatattaga atggaggtaa tacatacata gtatcaatat tgtttcaact tgatgtcctc 1140 taagctatca tocagttacc caagatgtcc cattaagttg ttcccggtag gtctgctttc 1200 cctggaagag ccgtatgtac tcagcctttc ctattgggcc ttccccacaa ttagaatatt 1260 ttgacttagt gtcctgtccc ccttggacgt tccaacttga cttagtgtcc agtgcccctt 1320 ggacattcca acctggtagg taagctaatc taacaactaa ctqccaaatt qataatatat 1380 aatctatgat aatgaatate tettttgtgt eteetteeta agecateete agagagteet 1440 tagcagacaa atggtagatg tatctttggg cagctgaact tttctgcttt cctcaaatca 1500 gaccatatga gaggatatat totatgcata gatgtaatgc taaccttctg aatatttt 1560 gaatacattt atatattcac tgttgcctta taaaactgtt agggtaggtc tgtctaccct 1620 agcaaaagaa acacagaaat ttaaatgtac tgggagttat kkkkttaaaa acacaagata 1680 1740 aaaac 1745

<210> 683

<211> 3127

<212> DNA

<213> Homo Sapiens

1. Car

化氯化矿 化基础

 $[\frac{1}{2}, 1/2, \mathbf{U}] \subseteq [\frac{1}{2}, 1/2, \frac{1}{2}]$ 

化氢氯甲 化硫化

1 G 1 6

<400> 683 gaatteggea egagggteag caattgetta gggeggaatg egattteggg ggaggaggeg 60 cgggtatgta gacagagggg gttgggacac accaggaggg gaggagccag ccccagagat 120 egggaateet eteagteett agttacaagg etecateete aetttgtteg etecteagte 180 gtccaggcgg attccttttt cgccaggcac caaggcacag cttagagtag acccgagtcc 240 tgctctgcgg agttcctctt cccagcgaag gtacagaggc ggatgaactg ctgagacttg 300 attgacgtat tttaagattt ttttaacttc tgaagtctag caggcctgta agaacaaaaa 360 teattetgta ggaattaaaa acagaateea gtettgacaa catateeaca atgtetgatg 420 tatctactag tgtacaatca aaatttgata gacttgcaaa gaaaaaggaa aatatcacct 480 atatgagcag agagcagtta acagaaactg ataaggacat agctccggta ttagcattta 540 aaagtcaagg acgtatcagc aattatgaat aagtttaagg tcttaatgga aattcaagac 600 ctgatgtttg aggagatgag ggaaactctt aaaaatgacc taaaagcagt tttaggagga 660 aaagctacaa tacctgaggt aaagaattca gagaactcca gtagtaggca ggtttcagca 720 aataatcaat ttagcattac aaaaaacagg gatggtaggg aaaatagaag gagaaactct 780 aaaataggtg atgataatga aaatttaacc tttaaattag aagtaaatga gctgagtggt 840 aaattagaca acactaacga atacaatagt aatgatggta agaaattacc ccagggtgaa 900 teacgaagtt acgaagteat gggaagtatg gaagaaacet tatgcaatat agatgacaga 960 gatggaaatc gcaatgtcca tttagaattt acagaaagag agagtaggaa ggatggagag 1020 gatgaatttg tcaaagaaat gagagaggaa agaaaatttc agaaattgaa gaataaagag 1080 gaggttttaa aagcctccag agaagaaaaa gtgttgatgg atgaaggagc agtacttacc 1140 ctggcagccg acctttcatc agcaacactg gatattagta agcaatggag taatgtcttc 1200 aacattetga gagaaaatga ttttgaacet aaatttetgt gtgaagttaa attageattt 1260 aaatgtgatg gtgaaataaa gacattttca gatctgcaaa-gccttagaaa atttgccagc 1320 caaaaatctt ctatganaga wttactgana gatgtactcc cacaaaagga agaaataaat 1380 caaggaggaa gaaaatatgg nattcaagaa aaaagggata aaaccctaat agactcanag 1440 catagagetg gagaaataac cagtgatgge ttgagettee tatttettaa agaagtaaaa 1500 gttgctaagc cagaggagat gaaaaactta gagactcaag aggaagagtt ttccgagcta 1560 gaggagetgg atgaagagge tteagggatg gaggatgatg aagatacete agggetggag 1620 gaggaagaag aagaagaggc ttcagggttg gaggaggatg antectcang gctagaggag 1680 ... gaagaggaac agacttcaga acaggactca acctttcang gtcatacttt ggtagatgca 1740 ... aagcatgaag ttgagataac cagtnatggc atggaaacta ctttcattga ctctgtagag 1800 gattetgaat cagaggagga agaggaagga aagagetetg aaacaggaaa ggtaaagaet 1860 44 4 acctccctga ctgagaaaaa agcctcacgt agacaaaaag aaattccctt tagttatttg 1920 gttggggact ctgggaagaa aaagttggtg aaacaccagg tggtgcacaa aacccaggag 1980 gaagaggaaa cagetgtgee cacaagteaa ggaactggea caacetgtet gaeettatgt 2040 ttggcctctc cctcaaagtc actagagatg agtcatgatg agcataaaaa gcattcacat 2100 acaaatttga gtatttcaac aggagtcacc aaacttaaga aaacagaaga aaagaaacac 2160 aggactetge acacagaaga actaacatee aaagaageag aettaacaga ggaaacagaa 2220 gaaaacttga gaagtagtgt gattaatagc atcagagaga taaaagagga gattggaaat 2280 ttgaaaagtt cccattcagg tgtcttggaa attgaaaatt cagtagatga tctgagtagc 2340 agaatggaca teettgaaga aagaatagae agtetagaag atcaaattga agaattetet 2400 aaggatacaa tgcaaatgac caaacagata attagtaaag aagggccnag agatatagag 2460 gagagatcta gaagttgcaa cattcgtttg ataggaattc cagaaaagga gagttatgag 2520 aatagggcag aggacataat taaggaaata attgatgaaa actttgcaga actaaagaaa 2580 ggttcaagtc ttgagattgt cagtgcttgt cgagtaccta gtaaaattga tgaaaagaga 2640 ctgactccta gacacatctt ggtgaaattt tggaattcta gtgataaaga gaaaataata 2700 aggcetteta gagagagaag agaaattace taccaaggaa caagaatcag gttgacagca 2760 gacttatcac tggacacact ggatgctaga agtaaatgga gcaatgtctt caaagttctg 2820 ctggaaaaag gctttaaccc tagaacccta tacccagcca aaatggcatt tgattttagg 2880 ggtaaaacaa aggtattcct tagtattgaa gaatttagag attatgtttt gcatatgccc 2940 accttgagag aattactggg gaataatata ccttagcacc ccagggtgac tacaaacaat 3000 atgettteet eccedageat geacceaaaa accaacaagt aaaacgaaag tacaetteta 3060 cccagaagga tggacagcta ataccgtact tggggatgag gagcaaggaa tattacagat 3120 3127 attaccc

YY シブルリキシロラ エモ・エリングフローエン・フ

<210> 684 <211> 803

<212> PRT <213> Homo Sapiens <400> 684 Met Asn Lys Phe Lys Val Leu Met Glu Ile Gln Asp Leu Met Phe Glu Glu Met Arg Glu Thr Leu Lys Asn Asp Leu Lys Ala Val Leu Gly Gly Lys Ala Thr Ile Pro Glu Val Lys Asn Ser Glu Asn Ser Ser Ser Arg 40 Gln Val Ser Ala Asn Asn Gln Phe Ser Ile Thr Lys Asn Arg Asp Gly 55 Arg Glu Asn Arg Arg Arg Asn Ser Lys Ile Gly Asp Asn Asn Glu Asn Leu Thr Phe Lys Leu Glu Val Asn Glu Leu Ser Gly Lys Leu Asp Asn 90 Thr Asn Glu Tyr Asn Ser Asn Asp Gly Lys Lys Leu Pro Gln Gly Glu 105 100 Ser Arg Ser Tyr Glu Val Met Gly Ser Met Glu Glu Thr Leu Cys Asn 120 ITE Asp Asp Arg Asp Gly Asn Arg Asn Val His Leu Glu Phe Thr Glu 135 140 Arg Glu Ser Arg Lys Asp Gly Glu Asp Glu Phe Val Lys Glu Met Arg 155 . Glu Glu Arg Lys Phe Gln Lys Leu Lys Asn Lys Glu Glu Val Leu Lys 170 : 175 : : 165 worker 1984 to Wala Ser ArgyGlu Glu Lys Val Leu Met Asp Glu Gly AlawValtEeu Thr 🚧 **₩180** व्यवस्थान वर्षेत्रं । वर्षे Leu Ala Ala Asp Leu Ser Ser Ala Thr Leu Asp Ile Ser Lys Gin Trp 4.55音楽の - 14.5 - 14.954です。 2.00 12 (205) 建五节年3年3月 (2041) (2011) Ser Asn Val Phe Asn Ile Leu Arg Glu Asn Asp Phe Glu Pro Lys Phe  $\mathcal{I}_{s} = \{s_{i}, \ldots, s_{i}\} = 1$ • 215 220 🗼 🖟 🐪 🤲 🔀 Leu Cys Glu®Val Lys Leu Ala Phe Lys Cys Asp Gly Glu Ele Lys Thr Phe Ser Asp Leu Gln Ser Leu Arg Lys Phe Ala Ser Gln Lys Ser Ser 245 250 Met Xaa Kaa Leu Leu Xaa Asp Val Leu Pro Gln Lys Glu Glu Ile Asn 265 270 260 Gln Gly Gly Arg Lys Tyr Gly Ile Gln Glu Lys Arg Asp Lys Thr Leu 280 Ile Asp Ser Xaa His Arg Ala Gly Glu Ile Thr Ser Asp Gly Leu Ser 295 300 Phe Leu Phe Leu Lys Glu Val Lys Val Ala Lys Pro Glu Glu Met Lys 310 315 Asn Leu Glu Thr Gln Glu Glu Glu Phe Ser Glu Leu Glu Glu Leu Asp 325 330 Glu Glu Ala Ser Gly Met Glu Asp Asp Glu Asp Thr Ser Gly Leu Glu 345 Glu Glu Glu Glu Glu Ala Ser Gly Leu Glu Glu Asp Xaa Ser Ser 360 Xaa Leu Glu Glu Glu Glu Glu Gln Thr Ser Glu Gln Asp Ser Thr Phe 375

Xaa Gly His Thr Leu Val Asp Ala Lys His Glu Val Glu Ile Thr Ser

1.17

1 To 14 1

والمعارمية المفياء

```
390
                                       395
Xaa Gly Met Glu Thr Thr Phe Ile Asp Ser Val Glu Asp Ser Glu Ser
                405
                                   410
Glu Glu Glu Glu Gly Lys Ser Ser Glu Thr Gly Lys Val Lys Thr
                                425
Thr Ser Leu Thr Glu Lys Lys Ala Ser Arg Arg Gln Lys Glu Ile Pro
                        440 .... 445
Phe Ser Tyr Leu Val Gly Asp Ser Gly Lys Lys Leu Val Lys His
Gln Val Val His Lys Thr Gln Glu Glu Glu Glu Thr Ala Val Pro Thr
                   470
                                       475
Ser Gln Gly Thr Gly Thr Thr Cys Leu Thr Leu Cys Leu Ala Ser Pro
                485
                                   490
Ser Lys Ser Leu Glu Met Ser His Asp Glu His Lys Lys His Ser His
           500
                               505
Thr Asn Leu Ser Ile Ser Thr Gly Val Thr Lys Leu Lys Lys Thr Glu
        515
                           520
Glu Lys Lys His Arg Thr Leu His Thr Glu Glu Leu Thr Ser Lys Glu
                       535
Ala Asp Leu Thr Glu Glu Thr Glu Glu Asn Leu Arg Ser Ser Val Ile
                   550
                                       555
Asn Ser Ile Arg Glu Ile Lys Glu Glu Ile Gly Asn Leu Lys Ser Ser
               565
                                  570
His Ser Gly Val Leu Glu Ile Glu Asn Ser Val Asp Asp Leu Ser Ser
           580
                               585
Arg Met Asp Ile Leu Glu Glu Arg Ile Asp Ser Leu Glu Asp Gln Ile
                           600
                                              605
Glu Glu Phe Ser Lys Asp Thr Met Gln Met Thr Lys Gln Ile Ile Ser
                     (1615 新羅羅斯) [18] (1620
Lys Glu Gly Pro Arg Asp Ile Glu Glu Arg Ser Arg Ser Cys Asn Ile
                   630.
                         35 TEATHER 0:635
Arg Leu Ile Gly Ile Pro Glu Lys Glu Ser Tyr Glu Asn Arg Ala Glu
               645 2000 公外野地大海6500200
Asp Ile Ile Lys Glu Ile Ile Asp Glu Asn Phe Ala Glu Leu Lys Lys
                             4665
                                                 670
Gly Ser Ser Leu Glu Ile Val Ser Ala Cys Arg Val Pro Ser Lys Ile
                           680
Asp Glu Lys Arg Leu Thr Pro Arg His Ile Leu Val Lys Phe Trp Asn
                       695
Ser Ser Asp Lys Glu Lys Ile Ile Arg Pro Ser Arg Glu Arg Arg Glu
                   710
                                      715
Ile Thr Tyr Gln Gly Thr Arg Ile Arg Leu Thr Ala Asp Leu Ser Leu
               725
                                  730 ·
Asp Thr Leu Asp Ala Arg Ser Lys Trp Ser Asn Val Phe Lys Val Leu
           740
                              745
Leu Glu Lys Gly Phe Asn Pro Arg Thr Leu Tyr Pro Ala Lys Met Ala
                           760
Phe Asp Phe Arg Gly Lys Thr Lys Val Phe Leu Ser Ile Glu Glu Phe
                      775
                                          780
Arg Asp Tyr Val Leu His Met Pro Thr Leu Arg Glu Leu Leu Gly Asn
785
                   790
                                      795
Asn Ile Pro
```

276.85 CABC **

Section 2015

<211> 947 <212> PRT <213> Homo Sapiens

<400> 685

	<40	0>	685					_	_	_	_		_		-
Met Se	er L	eu	Pro		Arg	Gln	Thr	Ala		Ile	Val	Asn	Pro		Pro
. 1				_5		_			10			Mhaa	7.00	15 715	T 011
Pro Gl			20	•				25					30		
Gln Ty		eu 5	Gln	Lys.	Val	Val	Leu 40	Lys	Asp	Leu	Trp	Lys 45	His	Ser	Phe
Ser Ti	rp I		Phe	Gln	Arg		Val	Asp	Ala	Val	Lys	Leu	Lys	Leu	Pro
50 Asp Ty		<b>-</b>	mb sc	Tlo	Tla	55 Lvc	Aen	Dro	Met	Δen		Asn	Thr	Ile	Lvs
-	yr 1	yr	TILL	TTE	70	цур	ASII	FLO	ricc	75		11011			80
65 Lys A	rg I	Leu	Glu	Asn 85		Tyr	Tyr	Ala	Lys 90	Ala	Ser	Glu	Cys	Ile 95	Glu
Asp P	he 1	Asn	Thr 100		Phe	Ser	Asn	Cys 105	Tyr	Leu	Tyr	Asn	Lys 110	Pro	Gly
Asp A		11e 115		Leu	Met	Ala	Gln 120	Ala	Leu	Glu	Lys	Leu 125	Phe	Met	Gln
Lys L	eu j		Glņ	Met	Pro	Gln 135	Glu	_Gl_u	Gln	Val	Val 140		Val	Lys	Glu
Arg I	30	Tare	Tage	Glv	Thr			Asn	Ile	Ala		Ser	Ser	Ala	Lys
145	TE.	пуэ	цуз	وعرب	150	0				155					160
Glu L	vs	Ser	Ser	Pro		Ala	Thr	Glu	Lys	Val	Phe	Lys	Gln	Gln	Glu
				165					170	l				175	
Ile P				Phe			Thr	Ser 185		Ser	Pro	Leu	Asn 190		Val
Gln G	ะา√์	Ala	liser	.sVal	Asn	Ser	Ser			Thr	Ala	Ala	Gln	Val	Thr
03.11							200					205			
Lys (	3ly	Vàl	Lys		-Lys	Ala			ে Thi	Thi	220		Thr	Ser	Ala
Val I	LAZE	Δla	Ser	· Ser	Glu	Phe	Ser			. Phe			Lys	Ser	Val
225	u y D				230					23					240
Ala	Leu	Pro	Pro	) Ile	Lys	Gli	ı Asr	n Met	Pro	Ly	s Ası	ı Val	Lev	ı Pro	asp
				245	;				25	0				255	5
			26	D				26	5				270	)	ı Gln
Leu .	Arg	His 27		s Sei	Glı	ı Ile	e Let 28		s Gl	u Me	t Le	u Ala 28:		s Lys	s His
	Ser 290	Ty:	r Al	a Tr	p Pro	Ph 29		r As	n Pr	o Va	1 As		l Ası	n Ala	a Leu
		Hi	s As	n Ty:	r Ty:			l Va	l Ly	s As	n Pr	o Me	t As	p Le	u Gly
305					31	0.				31	.5				320
Thr	Ile	Ly	s Gl	u Ly 32		t As	p As	n Gl	n Gl 33		r Ly	s As	p Al	а Ту 33	r Ser 5
Phe	Ala	Al	a As	p Va		g Le	u Me	t Ph		t As	n Cy	s Ty	r Ly 35		r Asn
Pro	Pro	As 35	p Hi		u Va	l Va	1 Th	ır Me		a Ar	g Me	t Le 36		n As	p Val
Phe		ı Th		s Ph	e Se	r Ly 37	rs Il		o IÌ	le G	lu Pr 38	o Va		u Se	r Met
n-	370	, ~:	ים עה	,, T1	بر العام			רד מו	le Ti	ar G			ır Gl	.v Ar	g Glu
385	ner	, C)	, s 1)	נב בי	39 39		-m 676	-1-			95	·	- <b></b>	<u>.</u>	400

```
Asn Thr Asn Glu Ala Ser Ser Glu Gly Asn Ser Ser Asp Asp Ser Glu
                                             410
           Asp Glu Arg Val Lys Arg Leu Ala Lys Leu Gln Glu Gln Leu Lys Ala
                                         425
           Val His Gln Gln Leu Gln Val Leu Ser Gln Val Pro Phe Arg Lys Leu
                  435
                                     440
           Asn Lys Lys Glu Lys Ser Lys Lys Glu Lys Lys Glu Lys Val
                                  455
           Asn Asn Ser Asn Glu Asn Pro Arg Lys Met Cys Glu Gln Met Arg Leu
                              470
                                                 475
           Lys Glu Lys Ser Lys Arg Asn Gln Pro Lys Lys Arg Lys Gln Gln Phe
                          485
                                             490
           Ile Gly Leu Lys Ser Glu Asp Glu Asp Asn Ala Lys Pro Met Asn Tyr
                                        505
           Asp Glu Lys Arg Gln Leu Ser Leu Asn Ile Asn Lys Leu Pro Gly Asp
                                     520
           Lys Leu Gly Arg Val Val His Ile Ile Gln Ser Arg Glu Pro Ser Leu
                                 535
           Ser Asn Ser Asn Pro Asp Glu Ile Glu Ile Asp Phe Glu Thr Leu Lys
                              550
                                                 555
           Ala Ser Thr Leu Arg Glu Leu Glu Lys Tyr Val Ser Ala Cys Leu Arg
                    565 570 5.75
           Lys Arg Pro Leu Lys Pro Pro Ala Lys Lys Ile Met Met Ser Lys Glu
                      580
                                         585
           Glu Leu His Ser Gln Lys Lys Gln Glu Leu Glu Lys Arg Leu Leu Asp
                                     600
                                                        605
           Val Asn Asn Gln Leu Asn Ser Arg Lys Arg Gln Thr Lys Ser Asp Lys
                                615
                                                    620
5344444 - 1
           Thr Gln Pro Ser Lys Ala Val Glu Asn Val Ser Arg Leu Ser Glu Ser
               630
                                                635
           Ser Ser Ser Ser Ser Ser Ser Glu Ser Glu Ser Ser Ser/Ser Asp
 (4 \tilde{x}_1 \tilde{x}_2 + x_3) = \tilde{x}_1^2
650
                                                        $4437 655.55.55
           Leu Ser Ser Ser Asp Ser Ser Ser Glu Ser Glu Met Phe Pro Lys
                      660
                                         665
           Phe Thr Glu Val Lys Pro Asn Asp Ser Pro Ser Lys Glu His Val Lys
                                     680
           Lys Met Lys Asn Glu Cys Ile Leu Pro Glu Gly Arg Thr Gly Val Thr
                                 695
           Gln Ile Gly Tyr Cys Val Gln Asp Thr Thr Ser Ala Asn Thr Thr Leu
                              710
                                                715
           Val His Gln Thr Thr Pro Ser His Val Met Pro Pro Asn His His Gln
                          725
                                             730
           Leu Ala Phe Asn Tyr Gln Glu Leu Glu His Leu Gln Thr Val Lys Asn
                    740
                                         745
           Ile Ser Pro Leu Gln Ile Leu Pro Pro Ser Gly Asp Ser Glu Gln Leu
                                     760
           Ser Asn Gly Ile Thr Val Met His Pro Ser Gly Asp Ser Asp Thr Thr
                                 775
                                                   ,780
           Met Leu Glu Ser Glu Cys Gln Ala Pro Val Gln Lys Asp Ile Lys Ile
                              790
                                                 795
           Lys Asn Ala Asp Ser Trp Lys Ser Leu Gly Lys Pro Val Lys Pro Ser
                          805
                                             810
           Gly Val Met Lys Ser Ser Asp Glu Leu Phe Asn Gln Phe Arg Lys Ala
                                         825
           Ala Ile Glu Lys Glu Val Lys Ala Arg Thr Gln Glu Leu Ile Arg Lys
```

845 840 835 His Leu Glu Gln Asn Thr Lys Glu Leu Lys Ala Ser Gln Glu Asn Gln 855 Arg Asp Leu Gly Asn Gly Leu Thr Val Glu Ser Phe Ser Asn Lys Ile 875 870 Gln Asn Lys Cys Ser Gly Glu Glu Gln Lys Glu His Pro Gln Ser Ser 885 Glu Ala Gln Asp Lys Ser Lys Leu Trp Leu Leu Lys Asp Arg Asp Leu 905 900 Ala Arg Pro Lys Glu Gln Glu Arg Arg Arg Glu Ala Met Val Gly Thr Ile Asp Met Thr Leu Gln Ser Asp Ile Met Thr Met Phe Glu Asn 935 940 930 Asn Phe Asp

945

<210> 686 <211> 3106 <212> DNA <213> Homo Sapiens

<400> 686

gtggcaagat gttcctggga ggtcaagtta agagtcaaaa ataattcatt agatttaaca 60 atttagcatg gacatgtact tgtagacagg attcaaagca gttaagaatg tctctgccaa 120 gtcgacaaac agctattatt gttaaccctc ctccaccaga atatataaat actaagaaaa 180 atgggcgatt gacaaatcaa cttcagtatc tacaaaaagt tgtcctaaag gatttatgga 240 agcatagttt ttcatggccc tttcaacgtc ctgtggatgc tgtgaaacta aagttgcctg 300 attattatac cattataaaa aacccaatgg atttaaatac aattaagaag cgcttggaga 360 ataaatatta tgcgaaggct tcagaatgta tagaagactt caatacaatg ttctcaaatt 420 gttatttata taacaagcct ggagatgaca ttgttcttat ggcacaagct ctagagaagc 480 tgtttatgca gaaattatct cagatgccac aagaagagca agttgtgggt gttaaggaaa 540 gaatcaagaa aggcactcaa cagaatatag ctgtttcttc tgctaaagaa aaatcatcac 600 ccagcgcaac agaaaaagta tttaagcagc aagaaattcc ttctgtattt cctaagacat 660 ctatttctcc cttgaacgtg gtacagggag cttcagtcaa ctccagttca caaactgcgg 720 cccaagttac aaaaggtgtg aagaggaaag cagatacaac aactcctgca acttcagcag 780 ttaaagcaag tagtgaattt tctccaacat tcacagaaaa atcagtggca ctgccaccta 840 taaaagaaaa tatgccaaag aatgttttgc cagattctca gcaacaatat aatgttgtgg 900 agactgttaa agtaactgaa caattaaggc actgtagtga gattcttaaa gaaatgcttg 960 caaagaaaca tttttcatat gcatggccct tttataatcc tgttgacgtt aatgctttgg 1020 gactecataa etaetatgae gttgteaaaa ateegatgga tettggaaet attaaggaga 1080 aaatggataa ccaagaatat aaggatgcat actcatttgc ggcagatgtt agattaatgt 1140 tcatgaattg ctacaagtac aatcctccag atcacgaagt tgtgacaatg gcaagaatgc 1200 ttcaggatgt tttcgaaacg catttttcaa agatcccgat tgaacctgtt gagagtatgc 1260 ctttatgtta catcaaaaca gatatcacag aaaccactgg tagagagaac actaatgaag 1320 cetectetga agggaactet tetgatgatt etgaagatga gegagttaag egtettgeaa 1380 agetteagga geagettaaa getgtacate aacageteea ggttttgtee caagtacett 1440 tccgtaagct aaataaaaag aaagagaagt ctaaaaagga aaagaaaaaa gaaaaggtta 1500 ataacagcaa tgaaaatcca agaaaaatgt gtgagcaaat gaggctaaag gaaaagtcca 1560 agagaaatca gccaaagaaa aggaaacaac agttcattgg tctaaaatct gaagatgaag 1620 ataatgctaa acctatgaac tatgatgaga aaaggcagtt aagtctgaat ataaacaaac 1680 tccctggaga taaacttggg cgagtagttc acataataca atcaagagag ccttctctga 1740 gcaattccaa tcctgatgag atagagatag actttgaaac actgaaagca tcaacactaa 1800 gagaattaga aaaatatgtt teggeatgte taagaaagag accattaaaa eeteetgeta 1860 agaaaataat gatgtccaaa gaagaacttc actcacagaa aaaacaggaa ttggaaaagc 1920 ggttactgga tgttaataat cagttaaatt ctagaaaacg tcaaacaaaa tctgataaaa 1980

cgcaaccatc caaagctgtt gaaaatgttt cccgactgag tgagagcagc agcagcagca 2040 gcagctcatc agagtctgaa agtagcagca gtgacttaag ctcttcagac agcagtgatt 2100 ctgaatcaga aatgttccct aagtttacag aagtaaaacc aaatgattct ccttctaaag 2160 agcatgtaaa gaaaatgaag aatgaatgca tactgcctga aggaagaaca ggcgtcacac 2220 agataggata ttgtgtgcaa gacacaacct ctgccaatac tacccttgtt catcagacca 2280 caccttcaca tgtaatgcca ccaaatcacc accaattagc atttaattat caagaattag 2340 aacatttaca gactgtgaaa aacatttcac ctttacaaat tctgcctccc tcaggtgatt 2400 ctgaacagct ctcaaatggc ataactgtga tgcatccatc tggtgatagt gacacaacga 2460 tgttagaatc tgaatgtcaa gctcctgtac agaaggatat aaagattaag aatgcagatt 2520 catggaaaag tttaggcaaa ccagtgaaac catcaggtgt aatgaaatcc tcagatgagc 2580 tetteaacca atttagaaaa geageeatag aaaaggaagt aaaagetegg acacaggaae 2640 tcatacggaa gcatttggaa caaaatacaa aggaactaaa agcatctcaa gaaaatcaga 2700 gggatcttgg gaatggattg actgtagaat ctttttcaaa taaaatacaa aacaagtgct 2760 ctggagaaga gcagaaagaa catccgcagt catcagaagc tcaagataaa tccaaactct 2820 ggcttctcaa agaccgtgat ttagccaggc cgaaagaaca agagaggagg aggagagaag 2880 ccatggtggg taccattgat atgaccette aaagtgacat tatgacaatg tttgaaaaca 2940 actttgatta aaactcagtt tttaaattaa ccatccactt aaaatgaatg gtaaaagatc 3000 aaaatgcata tggtaaaatg attgctttca gataacaaga taccaatctt atattqtatt 3060 ttgactgctc taaaatgatt aaacagtttt cacttacaaa aaaaaa 3106

A CALCULULATOR

<210> 687

<211> 1759

<212> DNA

<213> Homo Sapiens

### <400> 687

gtcactccgc aattagacag ctaagagatc tgtgttactt ccctcacata tataaataat 60 tttaaataaa aatcatggcg tgaataattt ettteeteta eegatttgaa getateeatt 120 🎎 tggaagacca cctctgaagagatgaaataag tcttctgcca aagattactt attaatttac 18000000000 gan aaggaaaagg ggaagttttg ttoctotoog tgaatttgat tgaaaatcga gggotttoto ;240agglaggalgbt gaatagtitti:ggcatccagg:gtcatttttc attaaaaaga gaaaagtcat gtcaaatatg 3000 មេ ត្រូវប្រការ aattteegea@gattatteag cactagacce@tgggagatte tgtaaagagg ggttttgtta 360gtq&%gatta (t tactcaactt@tteegggtaa aacaaacaca aatactcctc ctccaagggg cggggggt -42000t Nationaggs gcctaggtga tgcaccaatc acagegegee ctaccetata taageceega ggccgeeegg 480 gtgtttcatg cttttcgctg gttattacat cttgcgtttc tctgttgtta tgtctgaaac 540 Gen 636 935 cgtgcctgca gcttctgcca gtgctggtct agccgctatg gagaaacttc caaccaagaa 600 gcgagggagg aagccggctg gcttgataag tgcaagtcgc aaagtgccga acctctctgt 660 gtccaagttg atcaccgagg ccctttcagt gtcacaggaa cgagtaggta tgtctttggt 720 tgcgctcaag aaggcattgg ccgctgctgg ctacgacgta gagaagaata acagccgcat 780 caaactgtcc ctcaagagct tagtgaacaa gggaatcctg gtgcaaacca ggggtactgg 840 tgcttccggt tcctttaagc ttagtaagaa ggtgattcct aaatctacac gaagcaaggc 900 taaaaagtca gtttctgcca agaccaagaa gctggtttta tccagggact ccaagtcacc 960 aaagactgct aaaaccaata agagagccaa gaagccgaga gcgacaactc ctaaaactgt 1020 taggagcggg agaaaggcta aaggagccaa gggtaagcaa cagcagaaga gcccagtgaa 1080 ggcaagggct tcgaagtcaa aattgaccca acatcatgaa gttaatgtta gaaaggccac 1140 atctaagaag taaagagctt tccgggaggc caatttggaa agaacccaaa ggctctttta 1200 agagccaccc acattatttt aagatggcgt aacactggaa acaagtttct gtgacagtta 1260 tctataggtt taagttgtga tgcagctgag ttgaaaaggc ttgagattgg agaattaatt 1320 caggecagge ttcaagacca teetgggcaa catagecaga etaceateta taccaggggt 1380 ceteattece eeggeeaceg aceggtaace ggteeetgte catggeacgt tatgaattga 1440 gccgcacage tgaggggtga gcgaacatta accaactgag ctccaccgcc tgtcaggtta 1500 gctgcagcat tagatagatt ctcataagct caaactgtat tgtgaatggc acatgcaagg 1560 gatctaggtt tcaggctcct tgtgacaatc taatgcctga tgatctgagg ttggagcagt 1620 tttagtccgg aaatcattgc tcccagcccc tgcaccccct ggtccgtggt ataattgtct 1680 tacacaaacg gtctcttgtg tcaaaaaggt tggagactac tggtttttac aaaaaagtaa 1740

```
attagtcaag catggttgg
```

<210> 688

<211> 207

<212> PRT

<213> Homo Sapiens

<400> 688

Met Ser Glu Thr Val Pro Ala Ala Ser Ala Ser Ala Gly Leu Ala Ala 5 10 1

Met Glu Lys Leu Pro Thr Lys Lys Arg Gly Arg Lys Pro Ala Gly Leu 25

Ile Ser Ala Ser Arg Lys Val Pro Asn Leu Ser Val Ser Lys Leu Ile 40

Thr Glu Ala Leu Ser Val Ser Gln Glu Arg Val Gly Met Ser Leu Val 55 60

Ala Leu Lys Lys Ala Leu Ala Ala Gly Tyr Asp Val Glu Lys Asn 70 75

Asn Ser Arg Ile Lys Leu Ser Leu Lys Ser Leu Val Asn Lys Gly Ile 85 90

Leu Val Gln Thr Arg Gly Thr Gly Ala Ser Gly Ser Phe Lys Leu Ser

Lys Lys Val Ile Pro Lys Ser Thr Arg Ser Lys Ala Lys Lys Ser Val 125 .

Ser Ala Lys Thr Lys Lys Leu Val Leu Ser Arg Asp Ser Lys Ser Pro 135 140

Lys Thr Ala Lys Thr Asn Lys Arg Ala Lys Lys Pro Arg Ala Thr Thr 150 155

origin white ... Pro Lys Thr Wal Arg Ser Gly Arg Lys Ala Lys Gly Alackys Gly Lys :"#w **165** 

Therefore Gln Gln Gln Lys. Ser Pro Val Lys Ala Arg Ala Ser LysoSer blyse Leu 180 185 

entimes from the Gln HistHis Glu Val Asn Val Arg Lys Ala The Serthys Lys. 1980 -200 195

<210> 689

<211> 1464

<212> DNA

<213> Homo Sapiens

## <400> 689

agtaccgggt acgcaggggt gcctcaacca cactccgtcc acggactctc cgttatttta . 60 ggaggtccct ggccaaagat ttatttctct tgacaaccaa gggcctccgt ctggatttcc 120 aaggaagaat ttcctctgaa gcaccggaac ttgctactac cagcaccatg ccctaccaat 180 atecageaet gacceeggag cagaagaagg agetgtetga categeteae egeateqtqq 240 cacctggcaa gggcatcctg gctgcagatg agtccactgg gagcattgcc aagcggctgc 300 agtecattgg caccgagaac accgaggaga accggcgctt ctaccgccag ctgctgctga 360 caqctgacga ccgcgtgaac ccctgcattg ggggtgtcat cctcttccat gagacactct 420 accagaagge ggatgatggg cgtcccttcc cccaagttat caaatccaag ggcggtgttg 480 tgggcatcaa ggtagacaag ggcgtggtcc ccctggcagg gacaaatggc gagactacca 540 cccaagggtt ggatgggctg tctgagcgct gtgcccagta caagaaggac ggagctgact 600 tegecaagtg gegttgtgtg etgaagattg gggaacacac ececteagee etegecatea 660 tqqaaaatqc caatqttctq gcccgttatq ccaqtatctq ccaqcaqaat qqcattqtqc 720 ccatcqtgga gcctgagatc ctccctgatg gggaccatga cttgaagcgc tgccaqtatq 780 tgaccgagaa ggtgctggct gctgtctaca aggctctgag tgaccaccac atctacctgg 840

```
aaggcacctt gctgaagccc aacatggtca ccccaggcca tgcttgcact cagaagtttt
ctcatgagga gattgccatg gcgaccgtca cagcgctgcg ccgcacagtg cccccegctg
tcactgggat caccttcctg tctggaggcc agagtgagga ggaggcgtcc atcaacctca
atgccattaa caagtgcccc ctgctgaagc cctgggccct gaccttctcc tacggccgag
ccctgcaggc ctctgccctg aaggcctggg gcgggaagaa ggagaacctg aaggctgcgc
aggaggagta tgtcaagcga gccctggcca acagccttgc ctgtcaagga aagtacactc
egageggtea ggetgggget getgeeageg agtecetett egtetetaac caegeetatt
aageggaggt gtteecagge tgeececaac aactecagge cetgeecect eccaetettg
aagaggagge egecteeteg gggeteeagg etggettgee egegetettt etteeetegt
gacagtggtg tgtggtgtcg tctgtgaatg ctaagtccat caccetttee ggcacaetge
caaataaaca gctatttaag gggg
     <210> 690
      <211> 363
      <212> PRT
      <213> Homo Sapiens
      <400> 690
Pro Tyr Gln Tyr Pro Ala Leu Thr Pro Glu Gln Lys Lys Glu Leu Ser
Asp Ile Ala His Arg Ile Val Ala Pro Gly Lys Gly Ile Leu Ala Ala
           20
                               Asp Glu Ser Thr Gly Ser Ile Ala Lys Arg Leu Gln Ser Ile Gly Thr
                           40
Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg Gln Leu Leu Thr
                       55
Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Gly Val Ile Leu Phe His
                   70
                                  . . . . 75
Glu Thr Leu Tyr Gln Lys Alan Asp Asp Gly Arg Pro Phe Pro Gln Val
               85
                      1.09.65 (1.02.15) 90.0
Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly Val
           100
                  50 No. 105 co. 105
                                                 110
Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu Asp
                           120
Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe
                       135
                                           140
Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala
                   150
                                       155
Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile
                                   170
Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro
                               185
Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val
                           200
Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
                       215
                                           220
Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys Thr
                                       235
Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr Ala Leu
               245
                                   250
Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe Leu Ser Gly
                               265
Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn Ala Ile Asn Lys
                           280
Cys Pro Leu Leu Lys Pro Trp Ala Leu Thr Phe Ser Tyr Gly Arg Ala
```

don ...

900

960

1020

1080

1140

1200

1260

1320

1380

1464

1440

```
295
                         . 290
                   Leu Gln Ala Ser Ala Leu Lys Ala Trp Gly Gly Lys Lys Glu Asn Leu
                                                       310
                                                                                           315
                   Lys Ala Ala Gln Glu Glu Tyr Val Lys Arg Ala Leu Ala Asn Ser Leu
                                                                                    330
                                                325
                   Ala Cys Gln Gly Lys Tyr Thr Pro Ser Gly Gln Ala Gly Ala Ala Ala
                                         340
                   Ser Glu Ser Leu Phe Val Ser Asn His Ala Tyr
                                                                      360
                                  355
                              <210> 691
                              <211> 1216
                              <212> DNA
                               <213> Homo Sapiens
                               <400> 691
                    atgetecteg atgtggagee getggageet acaettagea acateatega geagegeage
                                                                                                                                                  60
                    ctgaagtgga tcttcgtcgg gggcaagggt ggtgtgggca agaccacctg cagctgcagc
                                                                                                                                                 120
                    ctggcagtcc agctctccaa ggggcgtgag agtgttctga tcatctccac agacccagca
                                                                                                                                                 180
                    cacaacatct cagatgettt tgaccagaag tteteaaagg tgeetaceaa ggteaaagge
                                                                                                                                                 240
                    tatgacaacc tctttgctat ggagattgac cccagcctgg gcgtggcgga cgtgcctgac
                                                                                                                                                 300
                    gagttetteg aggaggacaa catgetgage atgggeaaga agatgatgea ggaggeeatg
                                                                                                                                                 360
                    agegeattte ceggeatega tgaggeeatg agetatgeeg aggteatgag getggtgaag
                                                                                                                                                 420
                    ggcatgaact totoggtggt ggtatttgac acggcaccca cgggccacac cctgaggctg
                                                                                                                                                 480
                    ctcaacttcc ccaccatcgt ggagcggggc ctgggccggc ttatgcagat caagaaccag
                                                                                                                                                 540
                     atcaqccctt tcatctcaca gatgtgcaac atgctgggcc tggggggacat gaacgcagac
                                                                                                                                                 600
                    cagetggeet ecaagetgga ggagaegetg ecegteatee geteagteag egaacagtte
                                                                                                                                                  660
                    aaggaccetg ageagacaac tttcatctgc gtatgcattg etgagtteet gteeetgtat
                                                                                                                                                  720
💯 💯 💯 🖫 aqacaqaga ggctgatcca ggagctggcc aagtgcaaga ttgacacacacacatataatt 🦠
                                                                                                                                                 780
 The latest the grand of the gra
at the aagatocagg coaagtatot ggaccagatg gaggacotgt atgaagactt coacatogtg
                                                                                                                                                  900
white was a agetgeege tottaceeca toagotgego oggocagaea agoteaaeacacacteteegoec
                                                                                                                                                 960
and Marketine of cotootegy agoodtacaa gooddcaagt goodagtago acagotgocargdcocaacog
                                                                                                                                                1020
                     ctgccatttc acactcaccc tccaccctcc ccacccctc ggggcagagt ttgcacaaag
                     tecceccat aatacagggg gagecacttg ggcaggagge agggaggggt ccattecce
                                                                                                                                                1140
                     tggtgggget ggtggggage tgtagttgee ecetacetet eceacetett getetteaat
                                                                                                                                                1200
                     aaatgatctt aaactg
                                                                                                                                                1216
                                <210> 692
                                <211> 1958
                                <212> DNA
                                <213> Homo Sapiens
                                <400> 692
                      getgetgege cegeggetee ceagtgeece gagtgeeceg egggeecege gagegggagt
                                                                                                                                                    60
                      gggacccage cetaggeaga acceaggege egegeeeggg acgeeeggg agagageeae
                                                                                                                                                   120
                      tecegeceae greecattre geecetegeg teeggagtee eegtggeeag atetaaceat
                                                                                                                                                   180
                      gagetaceet ggetateece egeceecagg tggetaceea ecagetgeac caggtggtgg
                                                                                                                                                   240
                      tecetgggga ggtgetgeet accetectee geceageatg ecceecateg ggetggataa
                                                                                                                                                   300
                      eqtqqccacc tatgcggggc agttcaacca ggactatctc tcgggaatgg cggccaacat
                                                                                                                                                   360
                      gtctgggaca tttggaggag ccaacatgcc caacctgtac cctggggccc ctggggctgg
                                                                                                                                                   420
                      ctacccacca gtgcccctg gcggctttgg gcagcccccc tctgcccagc agcctgttcc
                                                                                                                                                   480
                      tecetatggg atgtatecae ecceaggagg aaaeceaece tecaggatge ecteatatee
                                                                                                                                                   540
                      gecataceca ggggecectg tgeegggeca geceatgeca eeceeeggac ageageceee
                                                                                                                                                   600
```

エ しょ( しじノい( 470 ) ノ

660

aggggcctae cetgggcage caccagtgae ctaccetggt cageetecag tgccaetece

tgggcagcag cagccagtgc cgagctaccc aggatacccg gggtctggga ctgtcacccc cgctgtgccc ccaacccagt ttggaagccg aggcaccatc actgatgctc ccggctttga 720 cccctgcga gatgccgagg tcctgcggaa ggccatgaaa ggcttcggga cggatgagca 780 840 ggccatcatt gactgcctgg ggagtcgctc caacaagcag cggcagcaga tcctactttc 900 cttcaagacg gcttacggca aggatttgat caaagatctg aaatctgaac tgtcaggaaa 960 ctttgagaag acaatcttgg ctctgatgaa gaccccagtc ctctttgaca tttatgagat 1020 aaaggaagcc atcaaggggg ttggcactga tgaagcctgc ctgattgaga tcctcgcttc - 1080 ccgcagcaat gagcacatcc gagaattaaa cagagcctac aaagcagaat tcaaaaagac 1140 cctggaagag gccattcgaa gcgacacatc agggcacttc cagcggctcc tcatctctct ctctcaggga aaccgtgatg aaagcacaaa cgtggacatg tcactcgccc agagagatgc 1200 1260 ccaggagetg tatgeggeeg gggagaaceg cetgggaaca gacgagteea agtteaatge 1320 ggttctgtgc tcccggagcc gggcccacct ggtagcagtt ttcaatgagt accagagaat 1380 gacaggccgg gacattgaga agagcatctg ccgggagatg tccggggacc tggaggaggg 1440 catgetggcc gtggtgaaat gtctcaagaa taccccagcc ttctttgcgg agaggctcaacaaggccatg aggggggcag gaacaaagga ccggaccctg attcgcatca tggtgtctcg 1-5-0-0 1560 cagcgagacc gacctcctgg acatcagatc agagtataag cggatgtacg gcaagtcgct gtaccacgac atctcgggag atacttcagg ggattaccgg aagattctgc tgaagatctg 1620 1680. tggtggcaat gactgaacag tgactggtgg ctcacttctg cccacctgcc ggcaacacca 1740 gtgccaggaa aaggccaaaa gaatgtctgt ttctaacaaa tccacaaata gccccgagat tcaccgtcct agagettagg cetgtettee acceetectg accegtatag tgtgecacag 1800 1860 gacctgggtc ggtctagaac tctctcagga tgccttttct accccatccc tcacagcctc 1920 ttgctgctaa aatagatgtt tcattttct gaaaaaaa

<210> 693 <211> 505 <212> PRT <213> Homo Sapiens

120

<400> 693 TANKA (1980年) (1980年) (1980年) Met Ser Tyr Pro Gly Tyr Pro Pro Pro Pro Gly Gly Tyr Pro Pro Ala 5 Rather #100 - 12 15 -Ala Pro Gly Gly Pro Trp Gly Gly Ala Ala Tyr Pro Pro Pro Ser Met Pro Pro Ile Gly Leu Asp Asn Val Ala Thr Tyr Ala Gly Gln 40. 1 111 12 45 Phe Asn Gln Asp Tyr Leu Ser Gly Met Ala Ala Asn Met Ser Gly Thr 55 Phe Gly Gly Ala Asn Met Pro Asn Leu Tyr Pro Gly Ala Pro Gly Ala Gly Tyr Pro Pro Val Pro Pro Gly Gly Phe Gly Gln Pro Pro Ser Ala Gln Gln Pro Val Pro Pro Tyr Gly Met Tyr Pro Pro Pro Gly Gly Asn 105 Pro Pro Ser Arg Met Pro Ser Tyr Pro Pro Tyr Pro Gly Ala Pro Val 120 Pro Gly Gln Pro Met Pro Pro Pro Gly Gln Gln Pro Pro Gly Ala Tyr 135 Pro Gly Gln Pro Pro Val Thr Tyr Pro Gly Gln Pro Pro Val Pro Leu 150 155 Pro Gly Gln Gln Pro Val Pro Ser Tyr Pro Gly Tyr Pro Gly Ser 165 170 175 Gly Thr Val Thr Pro Ala Val Pro Pro Thr Gln Phe Gly Ser Arg Gly 185 Thr Ile Thr Asp Ala Pro Gly Phe Asp Pro Leu Arg Asp Ala Glu Val 200

```
Leu Arg Lys Ala Met Lys Gly Phe Gly Thr Asp Glu Gln Ala Ile Ile
                       215
Asp Cys Leu Gly Ser Arg Ser Asn Lys Gln Arg Gln Gln Ile Leu Leu
                                      235
                   230
Ser Phe Lys Thr Ala Tyr Gly Lys Asp Leu Ile Lys Asp Leu Lys Ser
                                  250
               245
Glu Leu Ser Gly Asn Phe Glu Lys Thr Ile Leu Ala Leu Met Lys Thr
                              265 270 270
Pro Val Leu Phe Asp Ile Tyr Glu Ile Lys Glu Ala Ile Lys Gly Val
                           280
        275
Gly Thr Asp Glu Ala Cys Leu Ile Glu Ile Leu Ala Ser Arg Ser Asn
                       295
Glu His Ile Arg Glu Leu Asn Arg Ala Tyr Lys Ala Glu Phe Lys Lys
                                       315
                   310
Thr Leu Glu Glu Ala Ile Arg Ser Asp Thr Ser Gly His Phe Gln Arg
                                   330
                325
Leu Leu Ile Ser Leu Ser Gln Gly Asn Arg Asp Glu Ser Thr Asn Val
                               345
Asp Met Ser Leu Ala Gln Arg Asp Ala Gln Glu Leu Tyr Ala Ala Gly
                           360
 Glu Asn Arg Leu Gly Thr Asp Glu Ser Lys Phe Asn Ala Val Leu Cys
                        375
 Ser Arg Ser Arg Ala His Leu Val Ala Val Phe Asn Glu Tyr Gln Arg
                                       395
                    390
Met Thr Gly Arg Asp Ile Glu Lys Ser Ile Cys Arg Glu Met Ser Gly
                                   410
                405
 Asp Leu Glu Glu Gly Met Leu Ala Val Val Lys Cys Leu Lys Asn Thr
                                425
       420
 Pro Ala Phe Phe Ala Glu Arg Leu Asn Lys Ala Met Arg Gly Ala Gly
                                                                      个ACCEDE 2001 (1)
                                                                   े ए । या स्थानकारीका उर्देश
 440 1904 445
                                                                 TO SEE SEELESTED OF
 Thr Lys Asp Arg Thr Leu Ile Arg Ile Met Val Ser Arg Ser Glu Thr
                                                                  in Lander State Control
  450 450
                                           460
 Asp Leu Leu Asp The Arg Ser Glu Tyr Lys Arg Met Tyr Gly Lys Ser
                                                                     CONTRACTOR OF THE
                                                           480
     470
                                        475
 Leu Tyr His Asp Ile Ser Gly Asp Thr Ser Gly Asp Tyr Arg Lys Ile
                                                                      495
                                    490
               485
 Leu Leu Lys Ile Cys Gly Gly Asn Asp
             500
       <210> 694
       <211> 1141
       <212> DNA
       <213> Homo Sapiens
       <400> 694
  cgcagcttgc aaatggcgtc tccctcgctg gagcggccag aaaaaggcgc tggaaaaagt
                                                                      60
  gaatttegta accagaagee gaageeggag aaccaagatg aatcagaact cettaeggtt
                                                                     120
  cctgatggtt ggaaggaacc agctttttcc aaagaggaca atcccagagg acttttggag
                                                                      180
  gagagcagtt tcgcaacttt gttcccaaaa tacagggaag cttacttgaa agagtgttgg
                                                                      240
  ccattggtgc agaaagcctt aaatgaacat catgttaatg caaccctgga cctgatcgaa
                                                                      300
  ggcagcatga ctgtttgtac tacaaagaag acttttgatc catatatcat cattagggcc
                                                                      360
  agagatetga taaaaetgtt agcaaggagt gttteatttg aacaggeagt acgaattett
                                                                      420
  caggatgatg ttgcatgtga catcattaaa ataggttctt tagtaaggaa taaagagaga
                                                                      480
  tttgtaaaac gaagacaacg gcttattggt cccaaaggat ctacattgaa ggcattggaa
                                                                      540
  ctcttaacta attgttacat tatggttcag ggaaacacag tttcagccat tggacctttt
                                                                      600
```

すすひ フフバリヤムレン エ シスノ シロノリノスキケィノ

```
agtggcttaa aagaggttag aaaagtagtc cttgatacta tgaagaatat tcatccaatt
                                                                                660
           tataacatta aaagcttaat gattaagaga gagttggcaa aagattctga attacgatca
                                                                                720
           caaagttggg agagattttt gccacagttc aaacacaaaa atgtgaataa acgcaaggaa
                                                                                780
           ccaaagaaaa aaactgttaa gaaagatata cgccattccc accaccacaa ccagaaagtc
                                                                                840
           agatcgataa agaattggct agtggtgaat actttttgaa ggcaaatcag aagaagcggc
                                                                                900
           agaaaatgaa gcaataaagg ctaaacaagc agaagccatc agtaagagac aagaggaaag
                                                                                960
           aaacaaagca tttattccac ctaaggaaaa accaattgtg aaacctaagg aagcttctac --- 1020
           tgaaactaaa attgatgtgg ccagcatcaa ggaaaaggtt aagaaagcaa agaataagaa
                                                                               1080
           actgggaget ettacagetg aagaaattge acttaagatg gaggeagatg aaaaaaaaa
                                                                               1140
                                                                               1141
                 <210> 695
                 <211> 288
                 <212> PRT
                 <213> Homo Sapiens
                 <400> 695
           Met Ala Ser Pro Ser Leu Glu Arg Pro Glu Lys Gly Ala Gly Lys Ser
                            5
                                              10
           Glu Phe Arg Asn Gln Lys Pro Lys Pro Glu Asn Gln Asp Glu Ser Glu
                                          25
           Leu Leu Thr Val Pro Asp Gly Trp Lys Glu Pro Ala Phe Ser Lys Glu
                                       40
           Asp Asn Pro Arg Gly Leu Leu Glu Glu Ser Ser Phe Ala Thr Leu Phe
                                  55
           Pro Lys Tyr Arg Glu Ala Tyr Leu Lys Glu Cys Trp Pro Leu Val Gln
                                                  75
           Lys Ala Leu Asn Glu His His Val Asn Ala Thr Leu Asp Leu Ile Glu
Marketta Analisa and an 85
                                              90
                                                      1 (1 14 ACDA 9512 A Vec
           Gly Ser Met Thr Val Cys Thr Thr Lys Lys Thr Phe Asp Pro Tyr Ile
                      100
                                          105
                                                            110 A COL
           Ile Ile Arg Ala Arg Asp Leu Ile Lys Leu Leu Ala Arg Ser Val Ser
          Communication 115 White
                                      120
                                                        125 Was 1980 C.
           Phe Glu Gln Ala Val Arg Ile Leu Gln Asp Asp Val Ala Cys Asp Ile
                          135
                                                      140
           Ile Lys Ile Gly Ser Leu Val Arg Asn Lys Glu Arg Phe Val Lys Arg
                              150
                                                  155
                                                                      160
           Arg Gln Arg Leu Ile Gly Pro Lys Gly Ser Thr Leu Lys Ala Leu Glu
           Leu Leu Thr Asn Cys Tyr Ile Met Val Gln Gly Asn Thr Val Ser Ala
                       180
                                          185
           Ile Gly Pro Phe Ser Gly Leu Lys Glu Val Arg Lys Val Val Leu Asp
                                       200
           Thr Met Lys Asn Ile His Pro Ile Tyr Asn Ile Lys Ser Leu Met Ile
                                  215
           Lys Arg Glu Leu Ala Lys Asp Ser Glu Leu Arg Ser Gln Ser Trp Glu
                              230
                                                  235
           Arg Phe Leu Pro Gln Phe Lys His Lys Asn Val Asn Lys Arg Lys Glu
                          2,45
                                              250
           Pro Lys Lys Lys Thr Val Lys Lys Asp Ile Arg His Ser His His
                                          265
                                                              270
           Asn Gln Lys Val Arg Ser Ile Lys Asn Trp Leu Val Val Asn Thr Phe
```

. 44.

<210> 696 -

e transfer consistence um na Aurilia.

San Agencia

285

280

97 ひ クノロマルロン <211> 1008 <212> DNA <213> Homo Sapiens <400> 696 agcaggetag gaagaetgea teagttetta gtaaagatga tgtggeaeet gaaagtggtg 60 atactacagt gaagaaacct gaatcaaaga aggaacagac cccagagcat gggaagaaaa 120 aacgtggcag aggaaaagcc caagttaaag caacaaatga atccgaagac gaaatcccac 180 agctggtacc aataggaaag aagactccag ctaatgaaaa agtagagatt caaaaacatg 240 ccacagggaa gaagteteea geaaagagte etaateeeag eacacetegt gggaagaaaa 300 agaaaggett tgecageate tgagacceca aaagetgeag agtetgagae cecagggaaa 360 agcccagaga agaagcctaa aatcaaagaa gaggcagtga aggaaaaaag tccttcgctg 420 gggaaaaaag atgcgagaca gactcccaaa aaagccagag gccaagtttt tcaccattcc 480 tagtaaatct gtgagaaaag cttcccacac ccccaaaaaa tggcccaaaa aacccaaagt 540 accccagtcg acctaaagtc agtgattcaa ctggaaggaa acctcaatgc tgcctccaga 6.00 getttttgga aatactcaga teetggeege etttgtaace ttetetaaac gteaggeetg 660 gacttaaaag attitttaaa acctccataa gtagtccagg ggcggtggct cacgcctgta 720 atoccagoac titgggaggc cgaggcaggc ggatcacaag gicaacgaga tcgagaccat 780 cctggccaac atggtgaaac cctgtctgta ccaaaaatac aaaaattaat tgggcatggt 840 ggtggacacc tgtaatccca gctactaggg aggctgaggc aggagaattg cttgaacctg 900 ggaggcggag gttgcagtga gccactgcac tccagcctga tgacagagca agactcagtc 960 tcaaaaataa ataaaaataa taaaacctcc ataagtaatc ctgaaaaa 1008 <210> 697 <211> 685 <212> DNA <213> Homo Sapiens <400> 697 three on 18 \$40 (400) (100) acgagetgea etecageetg ggegacagag ggaaaeteca teteaaaaaa aaaaanaaaa 60 aaaaaanaaa aagaaaaaag anaatgccca gegeggtgge taatgcctgt aaccctagtg 120 agacagccaa gtaaaaacgg ctcccaagac aatctacaag cactgggagg atggggtgca 180 gcaccaaaat gttcacacca tttgcagagg ggaacagcct ggcccctgct gttccaggat 240 agtaaccagg aattcagttg gtgagatgga cagcctgtta gcaggactcc atctcacttt 300 getgtgttgt tettttteee ttttgeecaa taaattngta acceeteace ttteaaagtg 360 tetgegtgee taatetttee etgecatgtg accagaacce ggttttgttt acaacaccag 420 cactttggga ggcgaagatg ggctgattgc ttgagctcag gggtttaaga acagcctggg 480 caacatagtg aaaccctagt ttttaccaaa aatacgaaaa ttaaccaggc atgcctgtta 540 tcccagctga ggcacaagaa tcccttgaac ccaggaggcn gaannctaat tnnaacccga 600 aaatttgene ceactggeee eeccaggegg aagetagtga geegagattg egecactgea 660

<210> 698 <211> 1205

<212> DNA

<213> Homo Sapiens

cccctgagac gctgtntcaa aaaaa

<400> 698

ggcacgaggg tgtaggccgc tgcaggccnc catganccgg cttccggatg actacgaccc 60 ctacgcgtt gaagaccta gcgacgagga gccggctttg agcagctctg aggatgaagt 120 ggatgtgctt ttacatggaa ctcctgacca aaaacgaaaa ctcatcagag aatgtcttac 180 cggagaaagt gaatcatcta gtgaagatga atttgaaaag gagatggaag ctgaattaaa 240 ttctaccatg aaaacaatgg aggacaagtt atcctctctg ggaactggat cttcctcagg 300 aaatggaaaa gttgcaacag ctccgacaag gtactacgat gatatatatt ttgattctga 360 ttccgaggat gaagacagag cagtacaggt gaccaagaa aaaaagaaga aacaacacaa 420

685

```
gattccaaca aatgacgaat tactgtntga tcctgaaaaa gataacagag atcaggcctg
                                                                                                                               480
          ggttgatgca cagagaaggg gttaccatgg tttgggacca cagagatcac gtcaacaaca
                                                                                                                               540
          gcctgttcca aatagtgatg ctgtcttgan ttgtcctgcc tgcatgacca cactttgcct
                                                                                                                               600
          tgattgccaa aggcatgant catacaaaac tcaatataga gcaatgtttg taatgaattg
                                                                                                                               660
          ttetattaac aaagaggagg ttetaagata taaageetca gagaacagga agaaaaggeg
                                                                                                                               720
          ggtccataag aagatgaggt ctaaccggga agatgctgcc gagaaggcag agacagatgt
                                                                                                                               780
          ggaagaaatc tatcacccag tcatgtgcac tgaatgttcc actgaagtgg cagtctacga
                                                                                                                              840
          caaggatgaa gtettteatt titteaatgt titageaage catteetaaa cageecaaet
                                                                                                                               900
          ggcatttaat tacccaatac tgtatataag gcaaatatgg acagttactt tcctcttgcc
                                                                                                                               960
          tgttcatatc cttcagtgac attgaggaag cagtgtttct ctttttaaag gagaatagtt
                                                                                                                             1020
          gtcaacettc attcatetet tacatetete accetetect ttttttttt tttgatttte
                                                                                                                             1080
          ccccttattg atgggactga tattcattct gtttttgatg aacatttgga aactgtcggg
                                                                                                                             1140
          ctttttatta aagctctgta gaattaaaat gttctggaat tataagcaaa aaaaaaaaa
                                                                                                                             1200
          aaaaa
                                                                                                                             1205
                    <210> 699
                    <211> 1427
                    <212> DNA
                    <213> Homo Sapiens
                   <400> 699
          anannnetgg ageegegege etegeaggte gacactagtg gatecaaaga atteggeacg
                                                                                                                                60
          agcagtggta gcaaatgaag ccaaactgta tettgaaaaa cetgttgtte etttaaatat
                                                                                                                              120
         gatgttgcca caagetgcat tggagactca ttgcagtaat atttccaatg tgccacctac
                                                                                                                              180
         aagagagata etteaagtet ttettaetga tgtacaeatg aaggaagtaa tteageagtt
                                                                                                                              240
         cattgatgtc ctgagtgtag cagtcaagaa acgtgtcttg tgtttaccta gggatgaaaa
                                                                                                                              300
         cctgacagca aatgaagttt tgaaaacgtg tgataggaaa gcaaatgttg caatcctgtt
                                                                                                                              360
         ttctgggggc attgattcca tggttattgc aaccettgct gaccgtcata ttcctttaga
         tgaaccaatt gatcttctta atgtagcttt catagctgaa gaaaagacca tgccaactac gga:480a/...
construction transpared to take the control of the 
 ः कार्यः aatroacagga agggcgggac taaaggaact acaagctgtt agcccttccc gaatttggaa ः कोरा66@१९५० ।
 ttttgttgaa attaatgttt ctatggaaga actgcagaaa ttaagaagaa ctcgaatatg (tta@20)
         tcacttaatt cggccattgg atacagtttt ggatgatagc attggctgtg cagtctggtt
          tgcttctaga ggaattggtt ggttagtggc ccaggaagga gtgaaatcct atcagagcaa 8400
         tgcaaaggta gttctcactg gaattggtgc agatgagcaa cttgcaggtt attctcgtca
                                                                                                                              900
         tegtgteege ttteagtege atgggetgga aggattgaat aaggaaataa tgatggaact
                                                                                                                              960
         gggtcgaatt tettetagaa atettggtcg tgatgacaga gttattggtg ateatggaaa
                                                                                                                             1020
         agaagcaaga tttcctttcc tggatgaaaa tgttgtctcc tttctaaatt ctctgccgat
                                                                                                                             1080
         ttgggaaaaa gcaaacttga ctttaccccg aggaattggt gaaaaattac ttttacgcct
                                                                                                                             1140
         tgcagctgtg gaacttggtc ttacagcctc tgctcttctc gccaaacggg ccatgcagtt
                                                                                                                             1200
         tggatcaaga attgcaaaaa tggaaaaaat taatgaaaag gcatctgata aatgtggacg
                                                                                                                             1260
         gctccaaatc atgtccttag aaaatctttc tattgaaaag gagactaaat tgtaatgtga
                                                                                                                             1320
         ttcacaatgt aacaatataa aaataagttt ttatataatt atataaaagt aagatactct
                                                                                                                             1380
         gctgctttac tattgtataa tatagtagtt ttaaagttca aaaaaaa
                                                                                                                             1427
                   <210> 700
                   <211> 1967
                   <212> DNA
                   <213> Homo Sapiens
                   <400> 700
         ggcacgaggg aaagaggtac gaaatgatga aggaaaagta attcggttcc attgtaaatt
                                                                                                                               60
         atgcgagtgc agctttaatg atcccaatgc taaggagatg cacttaaaag ggcgaagaca
```

11 1 /// 1/10/200

cagacttcaa tataaaaaaa aagtaaatcc agatttgcaa gtagaagtaa agcctagtat

120

.180

gogaagacga gaagaagagg acgittgga aatggaaatg agacgttatg aagaggacat gategaggg aagaacgaag acgaacgaca actattggact coccatagge coccataggac cattagacgat gaccaggacat gcccoccaagacgacaggacatgacaggacagacaggacag	tcgagcaaga aagattcaag aagagaaaat gaggaagcaa atgcagaagg aggagtactg	240
gtactggagg agaatggagg agaacgaca teatgggat gatggccgc gaatggcagga 360 ggaggtat cectaagggge eggaccett aggaggte gacaggat 420 gcetectaag ceteagggge eggaccett aggagte gateattet 480 cetggaggte gatgacgta getectaag ceteaggge eggaccett aggaget 360 gagttacaag cagttcagaa aattgtttet attactgaac egattatet agtgacgtte gacgattgt etgaacaag gagacaaga aacastgca eggatgagg eggataagaagaggaggaggaggatacaagagaggagagg		300
togaaguttat octoatygue ottoacgooc attaggotte tegggagtce gaccaggat 420 gootectoag octoaggagt ottoacgoott acguette gactactus gaccagtta 480 ottogagagte gaccaggaat gootectoag octoaggage ottoaccott acguette gactactus gaccactt acguette gactactus 480 ottogagagte gaccaggaat gootectoag octoaggage ottoaccott acguette gactactus acguette gactactus 480 ottogagagte gaccaggaat gactattat tytaatagaa aacaaggag gagatgagta actoggaagga 720 gagaaaggaa gagattutga agagaaggaga 720 gagaaaggaa gagattutga aacaaggag gagatgagaa gaaggaggag 720 gagaaggaa atguttuta aacactacca aacagctty tyttataaa actogittoa gagagatgaga tattgoaaa aggattut ttgotgita totgaaggag gaatgagaa tagagagaga 720 gagagatgaaa atgutgagaa acctacoca aacagctyc tyttataag octgagaatg 440 tattaagcag tattgoagaa aacaagagag caatcaaga atguttagaa aggagatgaga 290 oaaaaatgac totgagagattaa ctgagaagaa acctacoca aacagctyc tyttataag cyagaagga 780 oo otgattito aggagatgaa actgagagaa acctacoca aacaggaga 290 oo otgattito aggagatgaaga acctaggaga 290 oo otgattito aggagatgaaga 290 oo otgattito aggagatga 290 oo	gtactggagg agaatggagg aagaacaaca tcattgggat gatcgccgcc gaatgccaga	360
gectocteag cetcaggggc ctgcacectt acgtcagtect gateatetg atgacegttt 480 ctgggattec gaccaggaat gectocteag cetcagggg ctgcacectt acgtcagtect for gactacateg atgacegtta tgtaatagaa aacatgeca catttatec aactgaagag gagttacaagg cagttcagaa aattgtttet attactgaac gtgctttaaa actggttec ggtaaagaca gagctttaaa aggagttttg cagagtgggg ctgcaacact caaagacat ggataagaca gagctttgaa aggaacaag aacaaagagg gagtgataa gaaagacact ggtaaagaca gagctttgaa aggagttttg cagagtgggg ttattgcaaa agggattact tattaagacg tattgcagaa acctacca aacagctge tgttataaga ctgagaacac atgaacataa atgtgctgta totgaagagg caataattt gaatcatgt gggaacacc gagatgtaac ctgggtatg gtgaaagacc aatgaagat cactatcaca ctgacatctc caattattg gaagagaaca atgagggaa gggattatte aggcagctc ggcacacta atgggtcac ftggaacac gagatgtaac ctggggggggggggggggggggggggggg	togaggettat cotcatogto otocaggeoc attaggeott otgggagtoo gaccaggeat	420
etggagatce gaccaggeat gectecteag ecteagggge etgacacett aegtegteet 540 gactactotty atgacettat tytaatgaca aaacatgagg gactyattata actectagaag agattacaga agattacaga agattacaga agagattaca agagattata etgacacty cogacacya agagacacag acacaagaga gagattyaa agagacaca acacagcty tytocogaga atagaaaty caactacoca acacagctyc tytataaga aggattact 780 etateagog atagaaagt caactacoca acagetyc tytataaga aggattact 780 aaatgacataa atytocyta totgaagog caataattt gaatcaty gygaacaca aaatgacagt cactatacac acagetyc caataattt gaatcaty gygaacaca aggagatyaa acctogagaaty gagatyataa cogagagagaaga acctogagaty cactatacac aggagagacaga cactagaca cygacacca cataattac gagagagaa atygagaaga aggagatyaca aggagatyaca cygaagaga aaagagaca cacgagaga cactagaga aggattaca aggagattac aggagagaca cacgagaga aggagagaaga aggagagaa aggagagaa aggagagaa aggagagaa aggagaga aggagaga acacagagaa cygagagaa aggagagaa aggag	genterteag ecteaggge etgeaceett acqteqteet gaeteatetg atgaeegttt	480
gactcatctg atgacgtta bytaatgaca aaacatgcca catttatca aactgaagag agstracaga aatttttch attactagaa gtctttaa atctgattca 660 gacagttttg ctgaacatga gaagacaag aacaaagagg gagtaata 680 gacagtttgt ctgaacatga gaagacaag aacaaagagg gagtagataa gaagaggga 720 ggtaaagaca atagactttga cgagtgggg atattgcaaa aggattact 780 tctccoggag atagaaaatg caacatctgt tcgagtgggg tatttgcaaa aggattact 780 atgacataaa atgacgtaga aacctacca aacagcttgc tgttataagc cctgagaagt 900 aasatgcaagt acctatcaca ctgaactcc caattattc gaattcatt gagaacac tcgagaaga 960 aasatgcaagt cactatcaca ctgacatcc caattattc gagaagaac atgagggaag 960 aasatgcaagt gcctatgggggacacc caccggacgt ctgggacagg caasaatgca 960 aastgcaagt gagatgatag gtgaaagac caccgggaagt ctgggacagg caaaatggc 960 agagtgtaca ctgggggac caccgggaagt ctgggacagg caaaatggc 1020 aggatttac aaggtgggca atggggttac aggagattca gagagagaa aggattttta aaggatgggga 1020 agcctcagag cctggggat gcactgagaa gagttttga atgatttc tcaaggatt 1140 agccctcagag cctggggat gcactgagaa gagtttttga accacattt tcaaggatta 1260 gccctcagag cctggggat gcactgagaa gagtttttga accattatt tcaaggatta 1260 ctcttgcatt ccgccagat ctccagaac ctcagagac ctcggaaca caccaagagaa agaacatcaca tgacacagtt gcactagaga 1440 ccttgcatt ccgccagata cacaaagac ctgaagagaa tattgaaa ggattccttt aasaccaa taccaagagaac tcttacagaa aacttacaa gagacacca ttgttgggt ttttcaaaa ggtttttaa 1600 accgttttaa aaattacaa gagtaccat ttgttggctg tttttcatc ataataatg 1600 accgtttaa aaattacaa gagttaaa aatttaaa gaattcaat gagaacaaa gtttcat gagaacaaa gttttcat gaagaacaa agtttttaa agaattcatg gagaacaa ccaagagaa aacagtaga tccgatttt tccactgat taaaaaaaa aacaggaac aagtgaaga ttgtgtgga aaaaaaaaa aacaggaac caaggagaa ttgtgtgga aaaaaaaaa aacaggaac aagtgaagaa ttgtgtgga caaaaaaaaa aacaggaac aagtgaagaa aggacacca aagagaaca aggagaaca aggagaaca aggagaaca aggagaaca aggagacaa agagagaa agaacagga agagagaa agaacagga agagagaaa agaacagga agagaacaa agaacagga agagacaaa agaacagga agaacaaga agaacagga agaacaaga agaacaaga agaacaaga agaacaaga agaacaa	staggagter gaccaggeat geotecteag coteagggge etgeacectt aegtegteet	540
gagattacagg cagttcagaa aattgtttct attactgaac gtgctttaaa actcgtttca foogacagtttg ctgaacattga gagacacag accaagagag gagatgataa gaaatgataa gagatgatata gaaatgagag gagatgatagagagacaggaggaggaggaggaggaggaggaggaggag	gastcatctg atgaccgtta tgtaatgaca aaacatgcca ccatttatcc aactgaagag	600
gacagtttgt ctgaacatga gaagaacaag aacaaagagg gagatgataa gaaagagga 720 ggtaaagaca gagctttgaa aggagttttg cgagtgagat tattgcaaa aggagttact tctcccggag atagaaatgt caacctgtt ttgctgtgc agagaacct tcaaagacat 840 tattaagcog tattgcagaa aacctacca aacagctgc tgttataagc cctgagaagt atgacaataa atgtgctgta tctgaagagg caataattt gaatcattg tggaacacc 960 aaatgcaagt cactatcaca ctgacatctc caattattcg agaagagaac atgaggaag gagatgaac ctcgggtatg gtgaaagacc caccggacgt cttggacagg caaaaatgcc ttgacgctct ggctgctcta cgccacgcta agtggttcaa ggcagaagct aatggctga gagttttca ggctgctcta cgccacgcta agtggttcaa ggcagaagct aatggctcta agccctgtgt gattatcata cgcattctc gagacctctg tcagcgagt caactatgc ctgattttca aagctgggct atggagtac taggagtac tagtgagaa agcattctt tagaggatt ccaccttgg ccccagaga ccctggggat gcactgagac aggatttttga atgattctt tcaagggatta tccttaaagg tagtcctgga cttctggatc cttgtgaaaa ggattccttt taaaggatt tccgcagaaga cacaaagac ctcgagaaca cacaaagac cttggaagaa acaccacaa gtcacagaaa gacaaaaaaa gacaaaaaaaa gacaaaaaaaa	gagttacagg cagttcagaa aattgtttct attactgaac gtgctttaaa actcgtttca	660
ggtaaagaca gagctttga aggagttttg cgagtggga tatttgcaaa agggattact 780 tctcccggag atagaaatg caaccttgtt ttgctgtgtc aggaaaacct tcaaagacat 840 tattaagccg tattgcagaa aacctaccca aacagcttge tgttataage cctgagaagt 900 atgacataaa atgtgctgta tctgaagcgg caataatttt gaattcatgt gtggaaccca 960 aaatgcaagt cactatcaca ctgacatct caattatteg agaagagaac tagagggag 1020 gagatgtaac ctcgggtatg gtgaaagace caccggacgt cttggacagg caaaaatgc 1080 ttgacggtct ggttgctcta cgccacgcta agtggttcca ggctagaagc caactggtg gattatcata cgacttctte caagcactgt tagaggagt aatggttcgc dggttttca aagctgggct atggagtac tagaggaga agcaatcage agtgettcta gccctagaga ccctggggat gcactgagaa gagtttttga atgcattgt caacttggt tctctaaagg tagtcctggac cttggaac gttgaaa gagatcccttg tcaatgagac caacatgac tgaccagaa cgtgaagaa tcacatcag tgacagttt caatgagac tctctgaatt catccacaac aacaggaac gagaagaga tcacatcag tgacagttt gataccttgg tagagctga ggggaaaaaa gacaaaaaag attaggatga tcacttaacg caaatgagc ttgaagctga ggggaaaaaa gacaaaaaag attatgataa cttttaaaaa gtgtctgtaa aacgttttaa catccacaac aacaggaac ttgagaatga tcacttaacg gatgttgtaa tctcagtg ttaaaaaaac agatgccat ttgttggctg tttttcattc ataataatgt for tacattgaa aaatttatca agaatttaaa ggatttcatg gaagaaccca aaaaaaaaa atgtacagg gcactggag aaacagtaga ttcgatttt tccattatt tttatttat gatattaaaa aatgtacagg gttaggatt tatttgatgg aaagaacaca agtttttcat gatattaaaa aatgtacagg gttaggatt tatttgatgg aaagaacaca agtttttcat gatattaaaa aatgtacagt gttaggtat ttttgatgg aaagaacaca agttttttaa tttttggttg ccctaggtgg aaacagaga ttcgatttt tccattatt tttattttat	gagetacagg cagetoagaa daadaacaag aacaaagagg gagatgataa gaaagaggga	720
tetcecggag atagaaatg caacettgtt ttgetgtgte aggaaacct teaaagacat #40 attgaagecg tattgaaga aacctacca aaagsttgs tgttataaag cetgagaatg 900 atgacataaa atgtgetgta tetgaageg caataattt gaatteatg gtggaacca 1020 gagatgtaac eteggstatg gtgaagage cacggacgt ettggaagg Gaaaaatgc 1020 agtectgtgt gattateata cgcatetet gagacetet gtggaaget atggatget 1140 agtectgtgt gattateata cgcatetett gagacetet teggacggt caacaattgc 1200 etgatttee aagetggget atggattae tatagagaa aggatettet caacttggt etgattete aagetggget atggattae tatagagaa aggatettet caagtggtte geetcaagg cectgggat geactgaag gagttettga aggatettet teagggatta 1200 etctgatt cgccaggat caccaaggtt cettggaacg agttetteagg gatecttgaagat aggatecttg gatectgga ettetggate ettetgaaga gagtetttga aggatectt teagggatta 1320 etcttgaat cgccaggat cectaggate etcacaccag tgcacagtt gatacettg 1320 etcttgaat cgccaggat cacaaaggte taggaagaga teagtagaga 1320 etcttgaat cgcaggata cacaaagtte taggaatgga tecattacc caaatgage 1320 etcttgaat cgcaggaaa cacaaaggte taggaagagaa gttgaggaga 1320 etcttgaat cacacaca aacaggaac taggaagaga gttgaggaga 1320 etcttgaat cacacaca aacaggaac ttgagaagagagagagaggaggaggagaaggagaa gttgaggaga 1320 etcttgatt cacacaca aacaggaac ttgagaagagagagagagagagagagagagagagagaga	gatagagaga gaggtttgaa aggagttttg cgagtgggag tatttgcaaa agggattact	780
tattaagog tattgoagaa aacctacca aacagcttgc tgttataago cctgagaagt 900 aagtgoadaa atggctgta tctgaagogg caataatttt gaattaatg gtggaacca 960 aagtgoagt cactatcaca ctgaagogg caataatttt gaattaatg gtgggaacca 960 aagtgoagt cactatcaca ctgactctc caactattt gagaagaaa atgagggaag 1020 ttgaagtgtaa ctcgggtatg gtgaaagacc caceggacgt cttggacagg caaaaatgcc 1080 ttgaagtttca ggctgctct cggcacgcta agtggttcca ggctagaga aatgagtgca 1140 agtcctggt gattatcata cgcattcttc gagacctctg tcagcgagtt ccaacttggt 1200 agtattttca aagtgggga dgactgagaa gagtttttga atgattttt tcagtggtta 1260 gcctcagag cactgagga atgagaa aggattcatg ggataccatg tcacactagg cactgagaa gagtttttga atgattttt tcagtggtta 1260 gcactaagag tagtcctgg cttctggaaca ggagaacaaga tcacatcaga ggatccatt tcacatcag tgcacaagtt tcacatcaga gagttcataa aacgttaagaa gagaaacaagaa tcacatcaga tgcacaagtt tgcacagga 1380 ttgaagacga ggggaaaaaa gacaaaaaaa gattatgataa cttttaaaaa ggggaaaaaaa gacaaaaaaa gattatgaaa gttttttaaaaa gttgtaggat 1560 ttgaagacga ttagaagaaa aacagtaat tcacatcaga gaagaacaaa gttttttaaaaa gttgtaggat 1560 ttgaagacga ttagaggaa aacagtaga ttgtggaggaacaa gttttttaa atgaatttaa 1740 gatattaaaa aatttacaa ggaatttaata ggatttcatg gaagaacaaa gttttttaa 1740 gatattaaaa aattgacagt tcacactcaga ttttgagaga ttttttaaata 1740 ttattaaaaa aattgacagt tcacactcaga ttttgagatga tttttaaacta 1740 ttattaaaaa aattgacagt tcacactcaga tttggagtgat tttggagtga ttattaaaaaaa aaaaaaaa	tataccagae atamaatat caacattatt ttactatata agagaaacat tcaaagacat	840
atgacataaa atgtgctgta tetgaaggg caataatttt gaattcatgt gtggaacca aatgacaagt cactatcaca ctgacatctc caattatteg agaagaagaa atgagggaag 1020 gagatgtaac ctegggtatg gtgaaagac caccgacgt cttggacagg caaaaatgcc 1080 ttgacggtet ggctgtcta ggcacgcta agtggttca ggcagagt cttgacgagt caacttgt cagcgagtt caacttgt ggtgaagact caacttggt ggtatatcata cgcattcttc gagacctctg tcagcgagt ccaacttggt 1200 ctgattttc aagctgggt atggagtac tagtgagaag agcatcagag agtgttttta 2200 ctcaagag coctgaggat gcactgagaa gagtttttga atgcattgt gattacattag 1200 ctctaaagg tagtccttgga cttctggaaa gagtttttga atgcattgt gcattgagaa 1320 ttcttaaagg tagtccttgga cttctggaac tctgtgaaaa gagtatcett tcagggatta 1320 ttcttaaagg tagtccttgga cttctggaac cttctggaac gagaagaaga tccattaccag gaaaaagag gggaaaaaa gacaaaaaag gaagaagaagaa tccattaccag caaaagagaa tccattcaag ggggaaaaaa gacaaaaaag gaatatgagaa tccattacag ggggaaaaaa agaagaaaaa gaattaaaa ggatttcatagg ggggaaaaaa agaagaaaa gaatttaaa ggattttaaa ggattttaaaa aatgtacaagt gttaggata tttgaatgg aaagaacaaa gtttttataaa aatgtacaagt gttaggata tttgaatgg aaagaacaaa gttttttat 1740 gagtgaagat tccattgaa aaatttaaa aagatttaaa ggatttcat gagaagaa aacaagag ttccattga 1860 tttctggttg cctagggga aaaaaaaga tccattgaa aaaaaaaaa aagaaaaaaaa gaaaaaaaaaa	tattaaggg tattagadaa aaggtagga aaggttag tattataagg cotgagaagt	
gagatgtaac ctcggtatg gtgaaagac caccggacgt cttggacagg caaaagaga 1020 gagatgtaac ctcgggtatg gtgaaagac caccggacgt cttggacagg caaaaagacg 1080 ttgacggtet ggctacta cgcaccgcta agtggttcca ggctagagct aatggtctgc 1140 agtoctgtgt gattatcata cgcattcttc gagacctctg tcaacgagt ccaacttggt 1200 ctgatttcc aagctgggt atggagtac tagtgaggaa agcaatcagg agtgcttcta 1260 gcctcagag cctgggggt gcactgagaa gagtttttga atgcattct tcagggatta 1320 ttcttaaagg tagtcctgga cttctggata aggattctt gattagagaa aggactaga cacaatgag caccaggaag cttcttggaaca gagaaca tcacatcag tgcacagtt gcattagaga 1440 cacacaca aacaggaaac tcacatcag tgcacagtt gcattagaga 1440 cacactgg gggaaaaaa gacaaaaaaa gagagaaga tcacatcag tgcacagttg gcattagaga 1560 ttgaagctga gggaaaaaa gacaaaaaag gaagaaaaaaaa ggattttaaa aggatttaa aggatttaa aggatttaa aggatttaaa aggattcaa aggattaaaa aatttaca aggatttaa ggatttaat ggaagaaccaa atttgaatga atttgaatgg aagaacacaa gtttttctat 1740 ggatattaaaa aatttacaa aggattgat tttgaatgg aagaacacaa agaagagaa tccattcag gaagaaccaa agatggtgta ttattgaatgg aaagaacaca caaaaaaaaa 1860 ttctggttg cctagcttc cccccctatt tttgtggctt ttattaacta gtgcattgt tttataaata ttcactgta taaaaaaaaa aaaaaaaaaa	atgacatasa atgactgta totgaaggg caataatttt gaattcatgt gtggaaccca	
gagatghaac ctegggtatg gtgaaagacc caccggacgt cttggacagg caaaaatgcc ttgacgctct ggctgctcta cgccacgcta agtggttcca ggctagagct aatggattc caactctggt 1200 ctgattttc aagctgggct atggagttact tagtaagaa agcaatcagc agtgcttcta 2200 ctgattttc aagctgggat gcactgagaga gagtttttga atgcatttct tcagggatt caacttggt 1200 ctgattttca aagctgggct atggagatac ctactggaaa gagtttttga atgcatttct tcagggatta 1320 ttcttaaagg tagtcctgga cttctggatc cttgtgaaa aggattcttt tcaaggatta 1320 ttcttaaagg tagtcctgga cttctggatc cttgtgaaa aggatccttt gataccttgg 1380 caacaatgac tgaccagaca cgtgaagaac acacaaggaa gcaatgagga tcacatcacg tgcacagtt gcattgagac 1500 aacgttttaa catccacaac acacaggaaac gaagaagaga tcacatcacg tgcacagtt gcattgagac 1500 aacgttttaa catccacaac acacaggaaac gaagaagaga tcacatacacg caaatgagc 1500 aacgttttaa catccacaac acacaggaaac gaagttctaggt tttttcatc ataataatg 1560 attgaagctg ggggaaaaaa agcaaaaaaa gaattcagaga tttgatgga gttgatgat 1560 attgaagctg ggggaaaaaa agcaaaaaaa gaattcacaac acattgaga aatttaaaa gagttcctat 1740 gaatttaaaa aatttaaca agaatttaaa ggattccttg gaagaacaca gttttctctat gattaaaaa aatttaaaa agaattaaa gaatttct tccattatt tttatttat 1740 gatattaaaa attgacagt gttaggtatt ttccattatt tttaattta 1740 gatattaaaat ttcactgata taaaaaaaaa aacagtagt tccacatttt tccattatt tttaattta 1740 attactgata ttaaaaaaaaa aaaaaaaaaaa aaaaaaaaaa	anatogaat cactatoaca otgacatoto caattattog agaagagaac atgagggaag	
ttgacgctct ggctgctcta cgccacgcta agtggttcca ggctagagct aatggttcc agtcctgtt gattatcata cgcattcttc gagacctctg tcagcgagtt ccaactctggt 1200 ctgattttcc aagctgggct atggagttac tagtagagaa agcaatcagc agtgcttcta ggcctcagaga gcctggggat gcactgagaa gagtttttga atgcatttct tcagggatta 1220 gcctcagag ccctggggat ctctgggat cttgtgaata ggattccttt gatccttgagat ctcttaaagg tagtccggg cgtgaagaca tcacatccag tgcacagttt gcattgagac 1380 caacaatgac tgcacagaga cgtgaagaca tcacatccag tgcacagttt gcattgagac 1440 tccttgcatt cgcccagata cacaaagaca gagagaagaga	anathetase eterretate eterasanace cacceracet etteracare caasaatree	
agtoctgtgt gattatoata cgoattcttc gagacctctg tcagcgagt ccaacttggt 1260 ctgattttcc aagctgggct atggagttac tagtaggaa agcaatcage agtgettcta 1260 geoctcagag coctggggat geactgagaa gagtttttg atgcattct tcagggatta 1330 ttottaaagg tagtoctgga cttctggatc cttgtgaaaa ggattccttt gataccttgg 1380 caacaatgac tgaccagcag cgtgaagaca tcaccas tgcacagttt gcattagagac 1440 tcottgcatt cgcgcagta cacaaagttc taggcatgga tcacattaccg caaattagac 1500 aacgttttaa catccacaa aacaggaac gaagaagaga tagtgatgag gttgatgga 1560 ttgaagctgg gggaaaaaa gacaaaaaag attatgataa cttttaaaaa gtgttgatgga 1560 ttgaagctgg ttaaaaaaaa gatcacaat ttgttggagt tttttcattc ataataaatg 1680 ctacattgaa aaattatca agaatttaaa ggatttcatg gaagaaccaa gttttctat gatattaaaa atgtaccat ttgttggggt ttttcattc ataataaatg 1740 gatattaaaa aatgtacagt gttagggaa aacagtagt tccgattttt tcccattatt tttatttat tccattgat ttcactggtg coccccatt ttgttggctt ttccatta tttatttat tttattat ttccattgat tcaccgattgg coccccatt ttgttgctt ttataaca gtgcattgc 1740 ttataaatc ttcactgtat taaaaaaaaa aaaaaaaaaa	three grants to grant at a concernant a adaptic a grant and grant and grant at a concernant and grant and	
ctgattttcc aagctggget gractgagat taggagttac tagtagagaa agcaatcagc agtgetteta geectcagag coctogggat gractgagaa gagtttttga atgeatttet teagggatta 1320 teetetaaagg tagteettyga ettetggate ettetgaaaa gagtteettt geattegagae 1380 teetetgate cettgaaaa gagteetett geattegagae 1440 teettgeatt cegecagata cacaaagate taagcatgga teetetgaagee 1500 teaggttttaa catecacaa cacaggaaac agaagaagga tagtgatggg gattgatggaff 1560 tegaagetgg ggggaaaaaa gacaaaaaag attatgataa teetetaagg gttgatgat 1560 tegaagetgg gggggaaaaaa gacaaaaaag attatgataa cettteagtg teaaaaaaaa agatgeceat ttgttggetg tetteteatte ataataatg 1620 teaattgaa aaattataa agaatttaaa ggatteetgg gaagaacaa gtttetetat gattataaa aatgtacagt gttaggtatt atttgataa gagaacaaca aatttaaaa aatgtacagt gttaggtatt atttgataa gagaacaca agttteetg tettetetggetg eectaggtee eececetat tettggetgt tettetattaata tetteatgtat taaaaaaaaa aaaaaaaaaa	embashatat antintanta cacattatta dagaacctata taaqqaatt ccaacttagt	
gecetcagag coctggggat goactggaga gagtttttga atgoatttet teagggatta ttettaaagg tagtectgga ettetggate ettetggaaaa ggatecett gatacettgg teottgaat egecagaa etacaagte taggeatgga tecettagge teettgatt eegecagata cacaaagte taggeatgga tecettagge ttgaagetga ggggaaaaaa gacaaaaaaa gaatagataa ettetaagtg gtgatggag ttgaagetga ggggaaaaaa gacaaaaaaa attatgataa ettetaagtg ttaaaaaaaa gaatteaaa ggattteatg gaagaacaa aattataca agaatttaaa ggattteatg gaagaacaa attattataa agaatttaaa ggattteatg gaagaacaa attattataa agaatttaaa ggattteatg gaagaacaca aacaagggaa aacaagtagt teegatttt teecattat tttatttat gatattaaaaa aattaacagt gttaggtatt atttgaatgg aaagaacaca ataggggaa aacaagtagt teegattttt teecattat tttatttat tttetagtgt coctagette coccectatt tttgtgtett ttataacaa gtgeattge ttattaaate ttcactgat taaaaaaaga aaaaaaaaaa aaaaaaaaaa	agteetgtgt gattaccata egeateetee gagaeteetg sagaeteege agtactteta	
ttottaaag tagtoctgga ottotggato ottotggato ottotgaaa ggatocott gatacettgg 1380 caacaatgac tgaccagcag cgtgaagaca tocacatccag tgacagtt ggattgaggc 1440 toottgcatt cogccagata cacaaagtto taggatgga tocattaccg caaatgagco 1500 acgttttaa catocacca acaaggaac gaagaagaa tagtgatggg gttgatggat 1560 ttgaagctga ggggaaaaaa gacaaaaaag atatgataa cttttaaaaa gtgtotgtaa 1620 atottcagtg ttaaaaaaac agaagtccat ttgttggggg tttttcatt gaatatgaga atattaaaa atttacaaa aattacaaa agaattcaaa ggatttcatg gaagaaccaa gtttttctat gaatttaaaa aatttacaag gttaggtatt atttgaatgg gaagaaccaa gtttttctat ggatattaaaa aatgtacagt gttaggtatt atttgaatgg gaagaaccaa gtttttctat tttatttat ttttttggtgtg coctagttg cocccctatt tttgtggtgt tttttcatt gttttttaataa gtgcacagggggaaacaa aaaaaaaaaa	constructed anguigaget anguagetas anguagetas atquattet to tonggatta	
caacaatgac tgaccagcag cgtgaagac tcacatccag tgcacagttt gcattgagac 1440 tccttgcatt ccgccagata cacaaagttc tagcatgga tccattaccg caaatgagcc 1500 aacgttttaa catccacaac aacaggaac gaagaagag tcattaccg caaatgagcc 1500 tcgagctga gggaaaaaa gacaaaaaa gatatatgataa cttttaaaaa gtgtctgatga 1560 ttgaagctga gggaaaaaaa gacaaaaaaa attatgataa cttttaaaaa gtgtcctga 1620 atctcagtg ttaaaaaaaac agatgcccat ttgttggctg tttttcatt ataataatgt 1680 ctacattgaa aaatttatca agaatttaaa ggattcatg gaagaaccaa gtttttctat 1740 gatattaaaa aatgtacagt gttaggtatt atttgaatgg aaagaaccaa gttttttat 1860 tttctggttg ccctagcttc cccccctatt tttgatggctg ttattaaata tttcatttat 1860 tttctggttg ccctagcttc cccccctatt tttgtgtctt ttattaacta gtgcattgtc ttattaaatc ttcactgtat taaaaaaaga aaaaaaaaaa	geeeteagag teetagagat geaetgagaa gageeeteaga aagateeettt gataeettag	
Locttgoatt cogcoagata cacaaagtto taggoatgga tocattacog caaatgagoc 1500 aacgttttaa catocacaca aacaaggaac gaagaagaa tagtgatgaa gttgatggat 1560 ttgagactga ggggaaaaaa gacaaaaaaa attatgataa ctttaaaaa gtgtctgtaa 1620 atottcagtg ttaaaaaaac agatgcocat ttgttggctg tttttcattc ataataatgt 1680 ctacattgaa aaatttatca agaatttaaa ggattcatg gaagaaccaa gtttttcat 1740 gaattaaaa aatgtacagt gttaggtatt atttgaatgg aaagaaccac aaaaaaaaaa	consistence transpared critical transpared t	
aacgttttaa catccaaac aacaggaaac gaagaagaga tagtgatgga gttgatggat 1560 ttgaagctga ggggaaaaaa gacaaaaaag attatgataa cttttaaaaa gtgtctgtaa 1620 atcttcagtg ttaaaaaaac agatgccat ttgttggctg tttttcattc ataataatgt 1680 ctacattgaa aaatttatca agaatttaaa ggatttcatg gaagaaccaa gtttttctat 1740 gatattaaaa aatgtacagt gttaggtatt atttgaatgg aaagaaccac aaaaaaaaa 1800 atgtgctccg actaggggga aaacagtagt tccgattttt tcccattatt tttattttat	teachagests aggregate cacasagtic taggratura tecattagg caaatgagge	
ttgaagctga ggggaaaaaa gacaaaaaag attatgataa cttttaaaaa gtgtcttgaa 1620 atcttcagtg ttaaaaaaac agatgccat ttgttggctg tttttcattc ataataatgt 1680 ctacattgaa aaatttatca agaatttaaa ggatttcatg gaagaaccaa agattttttata 1740 gatattaaaa aatgtacagt gttaggtatt attgaatgg aaagaccac aaaaaaaaa 1800 atgtgctccg actagggga aaacagtagt tccgatttt tcccattatt tttatttat 1860 tttctggttg ccctagcttc ccccctatt tttgtgtctt ttattaacta gtgcattgtc ttattaaatc ttccactgtat taaaaaaaaa aaaaaaaaaa	tedetigeatt cegecagata tacaaagtee taggeatgga techtotagga gitgatggat	
atcttcagtg ttaaaaaaaa agatgccat ttgttggctg tttttcattc ataataatgt ctacattgaa aaatttataa agaatttaaa ggatttcatg gaagaaccaa gtttttctatt 1740 gataattaaaa aatgtacagt gttaggtatt atttgaatgg aaagaaccac aaaaaaaaaa	aacgttttaa catccacac aacaggaaac gaagaagugu tugtgutgau geogutgau	
ctacattgaa aaatttatca agaatttaaa ggatttaatt gaagaaccaa gttttctat 1740 gatattaaaa aatgtacagt gttaggtatt atttgaatgg aaagaacacc aaaaaaaaaa	ttgaagetga ggggaadaaa gacaadaaag attattgacta tttttcattc ataataatat	
gatattaaaa aatgtacagt gttaggtatt atttgaatgg aaagacaccc aaaaaaaaaa	attiticaging tidadadadad ayatyootaa tigitiggoty teetiqaeta attatiticat.	
atgtgetceg actagggga aaacagtagt teegattttt teecattatt tttatttat 1860 tttetggttg ceetagette ceecetatt tttgtgtett ttattaacta gtgeattgte 1920 ttattataaate tteectgat taaaaaaaga aaaaaaaaaaaaaaaaaaaaaaa	Ctacattgaa addittatta ayaatttaaa yyatttaaataa aaaaaaaaa	
ttattaaatc ttcactgtat taaaaaaaaa aaaaaaaaaa	gatattaaaa aatgtacagt gttaggtatt acttgaatgg aaagacacce aaaaaaaaa	
ttattaaatc ttcactgtat taaaaaaga aaaaaaaaaa	atgracted actaggaga adacagtagt tetatatatt thattaecta atgrattate	
transcaled values of the color	teretgete edelagete edecetate tergegeer teatenate gegonteger	
<pre></pre>	ttattaaate tteactytat taaaaaaaya aadduddada, acadada	
<pre></pre>	Control of the Contro	
<pre>&lt;212&gt; DNA</pre>		7
<pre>&lt;400&gt; 701 ggtgaagaat gaaatcgtgg cgaatgtggg gaaaagagaa atcttgcaca atactgagaa 60 agaacaacac acagaggaca cagtgaagga ttgtgtggac atagaggtat tcactgctgg 120 tgagaatacc gaggaccaga aatcctctga agacactgcc ccattcctag gaaccttagc 180 agatgctacc tatgaggaac aggttcaaag ccaaattctt gagagcgctt ctctccctga 240 aaacacagca caggttgagt caaatgaggt cataggtgca ccaggaggagagca geggtgactc tccccttgag geggtgactc gggagaggca caggagaggca gaggaggca caggagaggca gaggagaggca gaggagaggca gaggagaggca gaggagaggca caggagaggca gaggagaggca gaggagagaga</pre>	(a) the state < 210 > 701	norda Nordalista
sylvania series	(大型 1	norda Nordalista
ggtgaagaat gaaatcgtgg cgaatgtggg gaaaagagaa atcttgcaca atactgagaa 60 agaacaacac acagaggaca cagtgaagga ttgtgtggac atagaggtat tcactgctgg 120 tgagaatacc gaggaccaga aatcctctga agacactgcc ccattcctag gaaccttagc 180 aaggtgctacc tatgaggaac caggttcaaag ccaaattctt gagagcgctt ctctccctga 240 aaacacagca caggttgagt caaatgaggt catgggtga ccaggaccaca caggaaatgt gggaggaggca gcggtgactc tccccttgag gcatcaaact gttggagtga cttagatggt gggagccaca cagagaatgt gggaggcacac cagagaatgt gggaggcacac aggttgagt agggaggcacac aggttgagt agggaggcacac aggttgagt agggaggcacac aggttgagac cttagatggt 420 gggagccaca cagagaatgt gggaggaggac gcatcaaact gttgagaga gcaggcaggc acagtgacac aggttgaaga gcaggcaggc atagttagaga gcaggcaggc atagtttgag gaaagaattc aggacaacagg aagaagagg gacacaagag gttccaagac agaacaggc acagtacaga agtaggtagg 660 gatcacaacg aggactgac cacaactgag gcaactgag gcaactgaca aacaagaaac aacaaggaga ggcattggac catcgcaga gaagacaaag aacaagaaaa aagagtgacc aaagaaaaaaaaaa	(大阪和高)	norda Nordalista (
ggtgaagaat gaaatcgtgg cgaatgtggg gaaaagagaa atcttgcaca atactgagaa 60 agaacaacac acagaggaca cagtgaagga ttgtgtggac atagaggtat tcactgctgg 120 tgagaatacc gaggaccaga aatcctctga agacactgcc ccattcctag gaaccttagc 180 aaggtgctacc tatgaggaac caggttcaaag ccaaattctt gagagcgctt ctctccctga 240 aaacacagca caggttgagt caaatgaggt catgggtga ccaggaccaca caggaaatgt gggaggaggca gcggtgactc tccccttgag gcatcaaact gttggagtga cttagatggt gggagccaca cagagaatgt gggaggcacac cagagaatgt gggaggcacac aggttgagt agggaggcacac aggttgagt agggaggcacac aggttgagt agggaggcacac aggttgagac cttagatggt 420 gggagccaca cagagaatgt gggaggaggac gcatcaaact gttgagaga gcaggcaggc acagtgacac aggttgaaga gcaggcaggc atagttagaga gcaggcaggc atagtttgag gaaagaattc aggacaacagg aagaagagg gacacaagag gttccaagac agaacaggc acagtacaga agtaggtagg 660 gatcacaacg aggactgac cacaactgag gcaactgag gcaactgaca aacaagaaac aacaaggaga ggcattggac catcgcaga gaagacaaag aacaagaaaa aagagtgacc aaagaaaaaaaaaa	(大阪和高)	norda Nordalista (
tgagaatace gaggaccaga aatectetga agacactgee ceattectag gaacettage 120 tgagaatace gaggaccaga aatectetga agacactgee ceattectag gaacettage 240 aaggtgetace tatgaggac caaattgaggt catgggtga ceagatgaca ggaccagaac 300 teceettgag ceatecaact gttggagtga cettagatggt gggagccaca cagagaatgt 360 gggagggagcaca cagagaatgt gggagggaggaggaggaggaggaggaggaggaggaggag	Company   200   701	norda Nordalista (
tgagaatacc gaggaccaga aatcetctga agacactgec ccattcetag gaacettage aggtgetacc tatgaggaac aggttcaaag ccaaattett gagagggett etetecetga 240 aaacacagca caggttgagt caaatgaggt catgggtgea ccaggatgaca gggagcacac cagagaatgt gtggaggga cettagatggt gggagccaca cagagaatgt gggaggccaca cagagaatgt gggaggaggca gcagtgactc aggttgaaga gcaggcaggc 480 acagtggcct cgtgtccttt agggcatagt gatgacacag tttatcatga tgacaaatgt gatggagagg acaccagggc atagtttgga gaaagaattc acacaaccagg aagcaggcag ggttccaggg gttccagggc acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaca ggattaaggg acgaggaaaccag aatcaagaca 720 gaattcctgg ttctccagca ggaactgaga gcaactgtca ggaaggaaac aacaagaaa aacaagaaa aacaaggaga ggttctaggg catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aagagactttt cggcagggg ccgggggc tcgggcctcg gccatggcca aggagtcgcc 1020	Canada   210   701	Service Service de Service de Service de Service de
aggtgctace tatgaggaac aggttcaaag ccaaattett gagagcgett etetecetga aaacacagca caggttgagt caaatgaggt catgggtgca ccagatgaca ggaccagaac 300 teecettgag ccatecaact gttggagtga ettagatggt gggagccaca cagagaatgt 360 gggagaggca geggtgaete teeceettgag ecatecaact gttggagtga ettagatggt gggagccaca cagagaatgt 420 gggagccaca cagagaatgt gggagggca gcagtgaete aggttgaaga geaggeagge 480 acagtggeet egtgteettt agggeatagt gatgacacag tttateatga tgacaaatgt 540 atggtagagg teececaaga gttagagaca ageacaggge atagtttgga gaaagaatte 360 gatcacaacg aagcagetga geecaaggag gttecagege acagtacaga agtaggtagg 660 gatcacaacg aagaagagg tgaagaaaca ggattaaggg acgagaaace aatcaagaca 720 gaatteetgg ttetecagea ggaactgaag geaactgtea ggaagegaca ggteeaagta 780 cagtagaca teaaaatgaa eecettagata tgaaaagage eggatgaaaa aagagtgaee 360 aaaaaaaaage ggttetaggg egeegggee tegggeeteg geeatggee aggagtegee 390 aaggaetttt eggeagege eggetgatte cagegacag gatggeecg aggagtegee 1020	<pre></pre>	teranica teranica management management and
aaacacagca caggttgagt caaatgaggt catgggtgca ccagatgaca ggaccagaac 300 tccccttgag ccatccaact gttggagtga cttagatggt gggagccaca cagagaatgt 360 gggaggaggca geggtgactc tccccttgag ccatccaact gttggagtga cttagatggt 420 gggagccaca cagagaatgt gggaggcaca cagagaatgt gggaggcaca cagagaatgt gggaggcaca cagagaatgt gggagggca gcagtgactc aggttgaaga gcaggcaggc 480 acagtgggct cgtgtccttt agggcatagt gatgacacag tttatcatga tgacaaatgt 540 atggtagagg tccccaaga gttagagaca agcacagggc atagtttgga gaaagaattc 600 gatcacaacg aagaagagg ggcacaaggag gttccaggc acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaaca ggattaaggg acgagaaacc aatcaagaca 720 gaattcctgg ttctccagca ggaactgagg gcaactgtca ggaaggaaca aagaggtgacc 780 cagtagaca tcaaaatgaa cccttagata tgaaagagc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aaaggactttt cggcagggg cggctgattc cagcgacagc gatggcgca aggagtcgcc 1020	<pre> **Constant &lt; 210 &gt; 701  **Constant &lt; 211 &gt; 3423</pre>	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
tcccttgag ccatccaact gttggagtga cttagatggt gggagccaca cagagaatgt 360 gggagaggca gcggtgactc tccccttgag ccatccaact gttggagtga cttagatggt 420 gggagccaca cagagaatgt gggagaggca gcagtgactc aggttgaaga gcaggcaggc 480 acagtggcct cgtgtccttt agggcatagt gatgacacag tttatcatga tgacaaatgt 540 atggtagagg tccccaaga gttagagaca agcacagggc atagtttgga gaaagaattc accaaccagg aagcagctga gcccaaggag gttccagcgc acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaaca ggattaaggg acgagaaacc aatcaagaca 720 gaattcctgg ttctccagca ggaactgagg gcaactgtca ggaagcgaca ggtccaagta 780 cagtagaca tcaaaatgaa cccttagata tgaaagagc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aagagtgacc 840 aagagactttt cggcagcgc cgcgggcgc tcgggcctcg gccatggctc acaggccgaa 960 aaggactttt cggcagcgc cggctgattc cagcgacagc gatggcgca aggagtcgcc 1020	<pre>ctanace &lt;210 &gt; 701 ctanace &lt;211 &gt; 3423</pre>	60 120 180
gggagaggca gcggtgactc tccccttgag ccatccaact gttggagtga cttagatggt 420 gggagaccaca cagagaatgt gggagaggca gcagtgactc aggttgaaga gcaggcaggc 480 acagtggcct cgtgtccttt agggcatagt gatgacacag tttatcatga tgacaaatgt 540 atggtagagg tcccccaaga gttagagaca agcacagggc atagtttgga gaaagaattc 600 accaaccagg aagcagctga gcccaaggag gttccagcgc acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaaca ggattaaggg acgagaaacc aatcaagaca 720 gaattcctgg ttctccagca ggaactgagg gcaactgtca ggaaggaaacc aagaggaga ccttagata tgaaagagc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aagagtgacc 840 aagagactttt cggcagcgc cggctgattc cagcgacagc gatggcgca aggagtcgcc 1020	trans(210) 701  2212 DNA  2213 Homo Sapiens  2400 701  ggtgaagaat gaaatcgtgg cgaatgtggg gaaaagagaa atcttgcaca atactgagaa agaacaacac acagaggaca cagtgaagga ttgtgtggac atagaggtat tcactgctgg tgagaatacc gaggaccaga aatcctctga agacactgcc ccattcctag gaaccttagc aggtgctacc tatgaggaac aggttcaaag ccaaattctt gagagcgctt ctctcctga	60 120 180 240
gggaggcaca cagagaatgt gggagaggca gcagtgactc aggttgaaga gcaggcaggc 480 acagtggcct cgtgtccttt agggcatagt gatgacacag tttatcatga tgacaaatgt 540 atggtagagg tcccccaaga gttagagaca agcacagggc atagtttgga gaaagaattc 600 accaaccagg aagcagctga gcccaaggag gttccagcgc acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaaca ggattaaggg acgagaaacc aatcaagaca 720 gaattcctgg ttctccagca ggaactgagg gcaactgtca ggaagcgaca ggtccaagta 780 cagtagacac tcaaaatgaa cccttagata tgaaagagcc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aaagactttt cggcagcgc cggctgattc cagcgacagc gatggcgca aggagtcgcc 1020	trans(210) 701  22 (211) 3423  22 DNA  213> Homo Sapiens  2400> 701  ggtgaagaat gaaatcgtgg cgaatgtggg gaaaagagaa atcttgcaca atactgagaa agaacaacac acagaggaca cagtgaagga ttgtgtggac atagaggtat tcactgctgg tgagaatacc gaggaccaga aatcctctga agacactgcc ccattcctag gaaccttagc aggtgctacc tatgaggaac aggttcaaag ccaaattctt gagagcgctt ctctccctga aaacacagca caggttgagt caaatgaggt catgggtgca ccagatgaca ggaccagaac	60 120 180 240 300
acagtggcct cgtgtccttt agggcatagt gatgacacag tttatcatga tgacaaatgt 540 atggtagagg tececcaaga gttagagaca ageacaggge atagtttgga gaaagaatte 600 accaaccagg aageagetga geccaaggag gttecagege acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaaca ggattaaggg acgagaaace aatcaagaca 720 gaatteetgg ttetecagea ggaactgagg geaactgtea ggaagegaca ggtecaagta 780 cagtagacae teaaaatgaa eeettagata tgaaagagee egatgaagaa aagagtgace 840 aacagggaga ggeattggae categeagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aaagactttt eggeagegg eggetgatte eagegacage gatggegee aggagtegee 1020	<pre></pre>	60 120 180 240 300 360
atggtagagg tececeaaga gttagagaca ageacaggge atagtttgga gaaagaatte 600 accaaceagg aageagetga geecaaggag gttecagege acagtacaga agtaggtagg 660 gateacaaeg aagaagaggg tgaagaaaca ggattaaggg acgagaaaee aateaagaca 720 gaatteetgg teeteagea ggaactgagg geaactgtea ggaagegaca ggtecaagta 780 cagtagacae teaaaatgaa eeettagata tgaaagagee egatgaagaa aagagtgace 840 aacagggaga ggeattggae categeagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aaagactttt eggeagegg eggetgatte eagegeeteg geeatggee aggagtegee 1020	<pre></pre>	60 120 180 240 300 360 420
accaaccagg aagcagctga gcccaaggag gttccagcgc acagtacaga agtaggtagg 660 gatcacaacg aagaagaggg tgaagaaaca ggattaaggg acgagaaacc aatcaagaca 720 gaatteetgg ttetecagca ggaactgagg gcaactgtca ggaagcgaca ggtccaagta 780 cagtagacac tcaaaatgaa cccttagata tgaaagagcc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aaagactttt eggcagcgc cggctgattc cagcgacagc gatggcgca aggagtcgcc 1020	<pre></pre>	60 120 180 240 300 360 420 480
gatcacaacg aagaagagg tgaagaaaca ggattaaggg acgagaaacc aatcaagaca 720 gaattcctgg ttctccagca ggaactgagg gcaactgtca ggaagcgaca ggtccaagta 780 cagtagacac tcaaaatgaa cccttagata tgaaagagcc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaa 900 aaagactttt cggcagcgc cggctgattc cagcgacagc gatggcgca aggagtcgcc 1020	<pre>trans(210) 701  see (211) 3423</pre>	60 120 180 240 300 360 420 480 540
gaatteetgg ttetecagea ggaactgagg geaactgtea ggaagegaca ggtecaagta 780 cagtagacae teaaaatgaa eeettagata tgaaagagee egatgaagaa aagagtgaee 840 aacagggaga ggeattggae categeagaa gaagacaaag aacaagaaaa aaaaaaaaaa	<pre> **Control /pre>	60 120 180 240 300 360 420 480 540 600
cagtagacac tcaaaatgaa cccttagata tgaaagagcc cgatgaagaa aagagtgacc 840 aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaaa	<pre> **Common Common C</pre>	60 120 180 240 300 360 420 480 540 600 660
aacagggaga ggcattggac catcgcagaa gaagacaaag aacaagaaaa aaaaaaaaaa	<pre> **Constraint** /pre>	60 120 180 240 300 360 420 480 540 600 660 720
aaaaaaageg ggttetaggg egeegggege tegggeeteg geeatggete acaggeegaa 960 aaggaetttt eggeagegeg eggetgatte cagegaeage gatggegeeg aggagtegee 1020	<pre></pre>	60 120 180 240 300 360 420 480 540 600 660 720 780
aaggactttt eggeagegeg eggetgatte eagegacage gatggegeeg aggagtegee 1020	<pre></pre>	60 120 180 240 300 360 420 480 540 600 660 720 780 840
aaggaculuu eggeageege eggeegatte eagegacage gattggegeeg aggageegee 1020	<pre></pre>	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900
tratagrant anagaraca anggerire anterenant tetaragen seperace 1080	<pre></pre>	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960
racraater aaaacaa aaaacaaa aaacaaaaa cooqaaaaa aaaaaaaa	<pre></pre>	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960 1020
	<pre></pre>	60 120 180 240 300 360 420 480 540 600 660 720 780 840 900 960

	ctctggagga	ggccgcgcgc	aggtggcggg	actgccccac	cgggttcggg	gccctcgtgg	1140
	ccggggccgg	gtctgggcga	gctcccggcg	tgccaccaaa	gcggctcccc	gcgcggacga	1200
			ttgatgtgtc				1260
	ctcagaaagt	aaggatgatc	agggtttgtc	ttctgacagt	tctagctctc	ttggagaaaa	1320
	agaactttca	tcaacagtta	agatcccaga	tgcagctttt	attcaggcag	cccgcagaaa	1380
	acgttgaatt	ggccagggcc	caagatgact	atatttcttt	ggatgtacaa	catacctcct	1440
	ccatctctgt	aagcagaaat	gaagaaacaa	gtgaagaaag	tcaggaagat	gaaaagcaag	 1500
	atacttggga	acaacagcaa	atgaggaaag	cagttaaaat	catagaggaa	agagacatag	1560
	atctttcctg	tggcagtgga	tcttcaaaag	tgaagaaatt	tgatacttcc	atttcatttc	1620
	cgccagtaaa	tttagaaatt	ataaagaagc	aattaaatac	tagattaaca	ttactacagg	 1680
	aaactcaccg	ctcacacctg	agggagtatg	aaaaatacgt	acaagatgtc	aaaagctcaa	1740
	agagtaccat	ccagaaccta	gagagttcat	caaatcaagc	tctaaattgt	aaattctata	1800
	aaagcatgaa	aatttatgtg	gaaaatttaa	ttgactgcct	taatgaaaag	attatcaaca	1860
	tccaagaaat	agaatcatcc	atgcatgcac	tccttttaaa	acaagctatg	acctttatga	1920
	aacgcaggca	agatgaatta	aaacatgaat	caacgtattt	acaacagtta	tcacgcaaag	1980
	atgagacatc	cacaagtgga	aacttctcag	tagatgaaaa	aactcagtgg	attttagaag	2040
	agattgaatc	tcgaaggaca	aaaagaagac	aagcaagggt	gctttctggg	aattgtaacc	2100
	atcaggaagg	aacatctagt	gatgatgaac	tgccttcagc	agagatgatt	gacttccaaa	2160
	aaagccaagg	tgacatttta	cagaaacaga	agaaagtttt	tgaagaagtg	caagatgatt	2220
			ttgttgaaat				2280
	cctattatga	agctttcatt	agtttatgca	taccaaagct	tttaaatccc	ctaatacgag	2340
_			cctcttaagt				 2400
			tttatggata				2460
			tetgeaatea				2520
	actttgtaga	attcctttgg	gatcctttgt	caacctcaca	gacaacaagt	ttaataacac	2580
			gaacattcca				2640
			gtttcaagaa				2700
						aagttccaag	2760
						aatggactcc'	2820
٠						taccttatta	2880
						caggtagcag	2940
						ccacagctag	3000
						gaattcaggg	3060
						caagcagaat	3120
						gattgaataa	3180
						gtttgagaag	3240
						aaaaaaagca	3300
						gctgccatga	3360
		ttctaaggaa	ttaaatgcac	tggagcttta	agagctcaac	gtgtttccct	3420
	ttg						3423

<210> 702 <211> 1106

<212> DNA

<213> Homo Sapiens

## <400> 702

ggcacgagca gagacgctgc aaattgcttg tggacggtgt aggccgctgc aggccaccat 60 gaaaccggct teeggatgae tacgaecect acgeggttga agagectage gacgaggage 120 cggctttgag cagctctgag gatgaagtgg atgtgctttt acatggaact cctgaccaaa 180 aacgaaaact catcagagaa tgtcttaccg gagaaagtga atcatctagt gaagatgaat 240 ttgaaaagga gatggaagct gaattaaatt ctaccatgaa aacaatggag gacaagttat 300 cctctctggg aactggatct tcctcaggaa atggaaaagt tgcaacagct ccgacaaggt 360 actacgatga tatatatttt gattctgatt ccgaggatga agacagagca gtacaggtga 420 ccaagaaaaa aaagaagaaa caacacaaga ttccaacaaa tgacgaatta ctgtatgatc 480

600

660

```
ctgaaaaaga taacagagat caggcctggg ttgatgcaca gagaaggggt taccatggtt
                                                                        540
     tgggaccaca gagatcacgt caacaacagc ctgttccaaa tagtgatgct gtcttgaatt
                                                                        600
     gtcctgcctg catgaccaca ctttgccttg attgccaaag gcatgaatca tacaaaactc
                                                                        660
     natataqaqc aatgtttgtt atgaattgtt ctattaacaa agaggaagtt ctaagatatn
                                                                        720
     aaqcctcnga naacaggaag aaaaggcggg tccatnaaaa aaataaggtc taaccgggaa
                                                                        780
     gatctgncga naaggcagaa acagatgtgg aaaaaatcta tenecentee tgtneeetga
                                                                        840
      atottecetq aaattggagt etacaacaag gatnaattet tennttttte entgttttag
                                                                        900
     caagcontcc taaacngccc netggetttt attteeccat aetgttttta agggeaaatt
                                                                        960
     tggacagttc cttncccctt geccgntent ntccctcntt gacttgaagg aaccatnttt
                                                                       1020
     connttttaa gggaaaaaat tgttcacctc cttcccctct taattcctcc cccccncctt
                                                                       1080
      ttttttcctt gaattncccc cttntg
                                                                       1106
           <210> 703
           <211> 1095
           <212> DNA
           <213> Homo Sapiens
            <400> 703
      tgccgctcct cttcctcttc tcttcttct tcttcctctt cttcctagct tccttcacca
                                                                         60
      aategeactg geteetggae tetttteeta tetteaceae gaaetgetge ttgetegett
                                                                         120
      gctcctcagt cctagcttca tcaaacactg gttcctggaa tcctgtctgc tgctgtcttc
                                                                         180
      ctanatteae tgaateeact tetgtgtage acetgggtea getgteaatt aatgetagte
                                                                         240
      ctcaqqattt aaaaaataat cttaactcaa agtccaatgc aaaaacatta agttggtaat
                                                                         300
      tactettqat ettgaattae tteegttaeg aaagteette acatttttea aactaageta
                                                                         360
      ctatatttaa ggccttccaa attcttctaa ctcttccaaa agccttctgc cttagttttt
                                                                         420
      tttaaattac accagtcctt ttagtagctt tttgatgtga tttttaacca acttcccctt
                                                                         480
      ctaqcttcaa gtattcttct aaattggttc tggtctacgt aaacaccctc atcttctcaa
                                                                       ... 54Q.
      getttacett ctaacttetg caccaccaga aattaaattg atgggetttt aaaataaatt 3,32,600.3
 - 作作 有貨機能力電視性 atttecteat ttttteagtg ctattttate caatttttgg ctttatattt 高級強値60% a No
中国の 2000 世紀ではafette tatacttete caatactgte ttagettgtt ttteatttte tatetgaaae (光本機能図20%) (1) (1)
 本語學 tacattttige cottaacttt tiggittoot aacniggiot tittootoog coloctaatt 海海線840 # ~
cenaacethe netaateent tteettegee tteeegtnat ttettgtntt ecaattttee .......960
      actteaaatt etatettee aaaattttt etnecaaene eecaaataaa actteeennt - 21020/8
     tncqtcqqqn ttaataaaag ntttaanagg gttaaaagaa annaatcccc cngttttgga
                                                                        1080
                                                                        1095
      attnangggt ttaaa
            <210> 704
            <211> 1968
            <212> DNA
            <213> Homo Sapiens
            <400> 704
       eggeagecet ectacetgeg caegtggtge egetgetget geeteceget egeeetgaae
                                                                          60
       ccaqtgcctg cagccatggc tcccggccag ctcgccttat ttagtgtctc tgacaaaacc
                                                                         120
       ggccttgtgg aatttgcaag aaacctgacc gctcttggtt tgaatctggt cgcttccgga
                                                                         180
       qqqactqcaa aaqctctcaq ggatqctggt ctgqcaqtca gaqatqtctc tqaqttqacq
                                                                         240
       qqatttcctg aaatgttggg gggacgtgtg aaaactttgc atcctgcagt ccatgctgga
                                                                         300
       atcotagete gtaatattee agaagataat getgacatgg eeagacttga ttteaatett
                                                                         360
       ataagagttg ttgcctgcaa tctctatccc tttgtaaaga cagtggcttc tccaggtgta
                                                                         420
       actqttqaqq aggctgtgga gcaaattgac attggtggag taaccttact gagagctgca
                                                                          480
       qccaaaaacc acgctcgagt gacagtggtg tgtgaaccag aggactatgt ggtggtgtcc
                                                                          540
```

acqqaqatqc agagctccga gagtaaggac acctccttgg agactagacg ccagttagcc

ttgaaggcat tcactcatac ggcacaatat gatgaagcaa tttcagatta tttcaggaaa

Between

300

```
cagtacagca aaggegtate teagatgeee ttgagatatg gaatgaacce acateagace
cctgcccagc tgtacacact gcagcccaag cttcccatca cagttctaaa tggagcccct
                                                                       720
ggatttataa acttgtgcga tgctttgaac gcctggcagc tggtgaagga actcaaggag
                                                                       780
getttaggta ttecageege tgeetettte aaacatgtea geecageagg tgetgetgtt
                                                                       840
ggaattecae teagtgaaga tgaggeeaaa gtetgeatgg tttatgatet etataaaace
                                                                       900
ctcacaccca tetcagegge atatgcaaga gcaagagggg etgataggat gtettcattt
                                                                       960
                                                                      1020
ggtgattttg ttgcattgtc cgatgtttgt gatgtaccaa ctgcaaaaat tatttccaga
gaagtatctg atggtataat tgccccagga tatgaagaag aagccttgac aatactttcc
                                                                      1080
aaaaagaaaa atggaaacta ttgtgtcctt cagatggacc aatcttacaa accagatgaa
                                                                      1140
aatgaagttc gaactctctt tggtcttcat ttaagccaga agagaaataa tggtgtcgtc
                                                                      1200
gacaagtcat tatttagcaa tgttgttacc aaaaataaag atttgccaga gtctgcctc
                                                                      1260
cgagacetca tegtageeae cattgetgte aagtacaete agtetaaete tgtgtgetae
                                                                      1320
gccaagaacg ggcaggttat cggcattgga gcaggacagc agtctcgtat acactgcact
                                                                      1380
cgccttgcag gagataaggc aaactattgg tggcttagac accateeaea agtgctttcg
                                                                      1440
atgaagttta aaacaggagt gaagagagca gaaatctcca atgccatcga tcaatatgtg
                                                                      1500
actggaacca ttggcgagga tgaagatttg ataaagtgga aggcactgtt tgaggaagtc
                                                                      1560
cctgagttac tcactgaggc agagaagaag gaatgggttg agaaactgac tgaagtttct
                                                                      1620
atcagctctg atgccttctt ccctttccga gataacgtag acagagctaa aaggagtggt
                                                                      1680
gtggcgtaca ttgcggctcc ctccggttct gctgctgaca aagttgtgat tgaggcctgc
                                                                      1740
gacgaactgg gaatcatcct cgctcatacg aaccttcggc tcttccacca ctgattttac
                                                                      1800
cacacactgt tttttggctt gcttatgtgt aggtgaacag tcacgcctga aactttgagg
                                                                      1860
ataacttttt aaaaaaataa aacagtatct cttaatcact -ggaaaaaa - - ------
                                                                      1920
                                                                      1968
      <210> 705
      <211> 800
      <212> DNA
      <213> Homo Sapiens
      <400> 705
                           cctgcaggtc gacactaagt gggatccaaa gaattcggca cgagaaaaga agaagactaa
gaataaaaag aataaagact caaaagaaga ccaagtccca tatgtggtag aaaaggaaga
                                                                        60
gcagttgagg aaagaacaag caaatccaca ctcagtcagt agacttataa aagatgatgc
                                                                       120
aagtgatgtt caagaggatt ctgcaatgga agacaagttc tatagcctgg atgaattgca
                                                                       180
tattetggae atgatagage agggeteage tggeaaagta actacagaet atggagaaac
                                                                       240
tgaaaaggaa aggcttgctc gtcaaaggca gctttataaa ttgcactatc agtgtgaaga
                                                                       300
tttcaaaaga cagttgagaa cagtgacttt tcggtggcaa gaaaaccaaa tgcagattaa
                                                                       360
aaagaaagac aaaattatcg catctcttaa tcaacaagtt gcttttggaa tcaataaggt
                                                                       420
ttccaaatta cagcgtcaaa tccatgctaa agataatgaa atcaagaacc ttaaagagca
                                                                       480
actttctatg aaaagatctc agtgggaaat ggaaaaacat aatctgggaa agcacaatga
                                                                       540
aaacatacgt aagcaaactg aacgcagaaa ctagcagagc tttaacagcc gaaggtgtan
                                                                       600
ttcttacagt gtcgtanggg antttgggtt tgcctcatcc tagagcaaga ctgaaaagga
                                                                       660
atgtcccaat cagcntgcca agggtgaccc acatggganc caagcaacct agaaancact
                                                                       720
                                                                       780
tcaatttaaa gggctgcggg
                                                                       800
      <210> 706
      <211> 487
      <212> DNA
      <213> Homo Sapiens
      <400> 706
caaaggaagc tcagtttttc ttttattatg agctgcttgt ntgagtggtg taaaattatg
tgctcttcaa tatagtgcta aagaagccag ctaattttat caaagcagca gccaaagaag
                                                                       60
tcaggacaaa tcttcaggac ttgtgaaatg aactgaaaga gcttgaagca gatggaattt
                                                                       120
taatagttac actatatatg ctcttagtag gtttttttct tgtagtggaa acataactgt
                                                                       180
tagcatattt cttaggatgt tttttcttgt ctttttaaat tcttatttca ctcatccttt
                                                                       240
```

TT U JUNEAU COLUMN TO 17

actotococt caagtattot acactttaat ttootgaaat aaatttaagg aaaagggaaa 360 tagtaaagaa gtaggaatgg gtgcagcaca ccagcatggc acatgaatac acatgtaact 420 aacctgcaca ttgtgcacat gtacoctaaa acttaaagta taataataat aaaaaaaaa 480 aaaaaaaa

<210> 707

<211> 3599

<212> DNA

<213> Homo Sapiens

<400> 707

aaggaggaga gggeegtgga ggeetegeeg ectaggtact getataacca gaatteggta 60 120 120 120 120 120 120 120 120 120 12
ctgctaacagaactggaccttttcgtgggagccaagaagaaaggtttgctcccgggtggaacagggattatcctctcctccccttaagagtcatgctcaagagagacactctggcaactttcctggcagagattcacttccctttgatttccaggggcattcggggcctccttttgcaaatgtagaggagcattcttcagctatggagctagagacggacctcatgggactatcgaggagggagagtacctcaggggatttcagggggggagatttttcgtcttctgatttcagagtaggagagaaccacctatggacttcaggggtaggacatacattctggggattttcagggtagggaggaccacctatggacttcagaggtggagatggtacttctatggattttagaggtagggatgccccatatggacttcagaggccgggacatacttctatggacttcagaggtagggatgtccccatctgacttcaggggccggggcacttatgatttagattttagaggccgggatggatcccatcagattttaggggaagggattaccagatttgattttagggccaggaacagtcccgttctgattttagggaagggattaccagatttgattttaggcaaggacagaccacaagtagactttagagaccacgatttgattttaggacaaggacaggaattttagggccagggtcaccacgatttgattttaggaggattttagggatacatcgatttagaattaccacgattgattttaggaggattttagggattcatactgatttagaattaccacgattgatctagataggattttaggagaacatcaaccacgattaccacgattgaacattcgaggattttaggaacattcaaccacgatagagaacattctggaacattcgaggatttaggaagaagaaaccacagaacaacacagaagaaaccacag
acagggatta teeteeteet eeeettaaga gteatgetea agagagacae teetggeaact teetggeag agatteaett eeetttgatt teeaggggea teetgggggagggggggggg
tteetggeag agatteactt eeetttgatt teeagggea ttegggeet eettttgaa 300 atgtagagga geattettte agetatggag etagagaegg acegeatggt gactategag 360 gaggggaggg acetggacat gattteaggg ggggagattt ttegtettet gattteeaga 420 gagaggatte ateacagttg gactateggg gtagggacat acattetggg gatttteggg 480 atagaggagg acecteatatg gactateaggg gtggagatgg taettettgg gatttatagag 540 gtagggatge aceteatatg aactacagag acagggatge teeteetatg gattttagag 660 geogggatgg ateeceatet gactteaggg geogggace ttatgattta gatttagag 660 geogggatgg ateeceatet gattttaggg gaagggattt ateagatttg gattttagag 720 ecagagaaca gteecegttet gattttagag gacgggatet ateagatttg gattttagag 780 acaaagaegg aacacaagta gactttagag geogaggte aggtaetaet gattttagag 780 aggattttag gggeagagag atgggatet teagaggtag acacegatet aggaetgate 900 aggattttag gggeagagag atgggatett gtatggaatt taaagatagg gagatgeee 2960 etgtggatee aaatattttg gattacatte ageeetetae acaagataga aggaetget 1080 fee 1020 fee 1
atgtagagga gcattctttc agctatggag ctagagacgg accgcatggt gactatcgag 360 gaggggaggg acctggacat gatttcaggg ggggagattt ttcgtcttct gatttccaga 420 gaaggattc atcacagttg gacttcaggg gtagggacat acattctggg gattttcaggg gattttcaggg gtagggacat acattctggg gattttcaggg gattatcaggg gtagggacat gattatagag gattatagag 540 gtagggatgc tcctccatct gacttcaggg gccggggacat tacagattt gattttagag 660 gccgggatgg atcccatcat gattttaggg gaagggattt atcagatttt gattttaggg 720 ccagagaaca gtcccgttct gattttagga ataggatgt atctgattta gattttaggg 780 acaaagacgg aacacaagta gactttagag gccgaggttc aggactact gattttaggg 780 agattttag gggcagagag atgggatctt tcagaggtag acaccgatct aggactgatc 900 aggattttag gggcagagag atgggatctt gtatggaatt taaagataga gaacattctg gattagag 1020 gtatggatcc aaatattttg gattacattc agccctctac acaagatag agaacattctg 1020 gtatggatca gaagggagaa tttgagcatt cagaaacaag agaaggagaa acacaaggtg 1200 gtatggatca gaagggagaa tttgagcatt cagaaacaag agaaggagaa acacaaggtg 1200 gtatggatca gaagggagaa tttgagcatt cagaaacaag ccaaagtca gtcaaagtca 1200 gtatggatca acatgagtct ccagaacacaa ccaaagaca gtcaaagtca gtcaaagaca 1200 gtatgaatga acatgagtct ccagaacaca gtcaaagtca gtcaaagaca 1200 gtatggatca acatgagtct ccagaacaca gtcaaagtca gtcaaagaca 1200 gatcaagaca gtcaaagaca 1200 gatcaagaca 1200 gattatcaga 420 480 480 660 660 60 600 600 600 600 600 600 60
gaggggaggg acctggacat gatttcaggg ggggagattt ttcgtcttct gatttccaga 420 gcagagattc atcacagttg gacttcaggg gtagggacat acattctggg gattttcggg 480 atagagaagg accacctatg gactataggg gtggagatgg tacttctatg gattatagag 540 gtagggatgc acctcatatg accacagagaggatgc tcacgctgtt gacttcagag 600 gtagggatgg accccatct gatttaggg gattttaggg gattttagag 660 gccgggatgg accccatca gattttaggg gagggattt atcagattt gatttagag 660 gccgggatgg accccatca gattttaggg gaagggattt atcagattt gattttagag 660 gccgggatgg accccatca gattttaggg gaagggattt atcagatttg gattttagag 720 ccagagaaca gtcccgttct gatttagag gccgaggtc accacagatt gactttagag gactttagag 780 acaaagacgg ggatacgca cattcagatt tcagaggtag acaccgatct aggactgatc gagatggatc acacagatca aggactgatc gagatggatca acaaagatgg gagatgccc gagatgccc gagatgccc acacagaca ttaggatttagagagaga acacaaggtg tacgatagac ggaagggagaa acacaaggtg tacgagagaga acacaggca 420 480 480 600 600 720 720 720 930 780 840 900 960 1020 1020 1020 1020 1020 1020 1020 10
gcagagattc atcacagttg gacttcaggg gtagggacat acattctggg gattttcggg 480 atagagaagg accacctatg gactataggg gtggagatgg tacttcatg gattatagag 540 gtagggatgc acctcatatg aactacagag acagggatgc tcacgctgtt gacttcagag 600 gtagggatgc tcctccatct gacttcaggg gcagggacac ttatgattta gattttagag 660 gccgggatgg atcccattcagga gaagggattt atcagatttg gattttagag 720 ccagagaaca gtcccgttct gattttagga atagagatgt atctgatttg gactttagag 780 acaaagacgg aacacaagta gactttagag gccgaggttc aggtactact gatctagact 840 ttagggacag ggatacgcca cattcagatt tcagaggtag acaccgatct aggactgatc 900 aggattttag gggcagagag atgggatct gtatggaatt taaagataga gaacattctg gatgatcact gatgaatgt acaagataga gaacattctg gatgatgatcact aggactgatc acaagatga acacaggaga atgggatca cacacagacca tacgatagaa aggactgatc 1080 ttggcattcas gaagggagaa tttgagcatt cagaaacaag ccaaagtca gtcaagacc 1200 taggatttaga acatgagtc ccagcagact ttcagaacag ccaaagtca gtcaagacc 1200 taggattagagaga acaccagacca ttcagaacag ccaaagtca gtcaagacc 1200 taggattagagagaa ttcaagaacagacagaca ccaaagacca gtcaagacc 1200 taggattagagagaa ttcaagaacagacagacagacagacagacagacagacaga
atagagaagg accacctatg gactataggg gtggagatgg tacttetatg gattatagag 540 gtagggagge acctcatatg aactacagag acagggatge teacgetgtt gactteagag 600 gtagggatge teetecatet gactteaggg geeggggeac ttatgattta gattttagag 660 geegggatgg atcecatgea gattttaggg gaagggattt atcagatttg gattttagag 720 ccagagaaca gteeegttet gattttagga ataggagatg atcetattagag geegaggtte acaaagaegg aacacaagta gactttagag geegaggtte aggtactact gatetagag 780 acaaagaegg gataegeea catteagat teagaggtag acacegatet aggaetgate 900 gagattttag gggeagagag atgggatett gtatggaatt taaagatagg gagatgeee 960 ctgtggatee aaatattttg gattacatte ageeetetac acaagaea taegataga aggeetgett 1080 1020 1140 taaggeetget taggeattega acatgaget ccageaget teagaacaag ggatagaee 1140 taaggage 1140 taaggage 1140 taaggage 1140 taaggage 11200 tagga acaagaege 11200
gtaggagge accteatatg aactacagag acagggatge teaegetgtt gaetteagag 600 gtagggatge teetecatet gaetteaggg geegggeae ttatgattta gattttagag 660 geegggatgg atceeatgea gattttaggg gaaggattt atcagatttg gattttaggg 720 ceagagaaca gteeegttet gattttagga atagagatgt atcagatttg gaetttagag 780 acaaagaegg aacacaagta gaetttagag geegaggtte aggaactact gatetagaet 840 ttagggacag ggataegeea catteagatt teagaggtag acacegatet aggaetgate 900 aggattttag gggeagagag atgggatett gtatggaatt taaagataga gagatgeee 960 ctgtggatee aaatattttg gattacatte ageeetetae acaagataga gaacattetg gaacattetg gattgaatgt gaacaggaga tttgageatt teagagacaa agaaggagaa acacaaggtg 1080 ttggcattea gaagggagaa tttgageatt teagaacaag agaaggagaa acacaaggtg 1200 taggeattea gaagggagaa tttgageatt teagaacaag ceaaagteea gtteaagaec 1200 taggeatteagaacaggaga ceaaagteea gaagggagaa acacaaggtg 1200 taggeatteagaacaggaga ceaaagteea gtteaagaec 1200 taggeatteagaacag acatgagte ceaaagteea gtteaagaec 1200 taggeatteagaacag acatgagte ceaaagteea gtteaagaec 1200 taggeatteagaacag acatgagte 1200 taggeatteagagaec 1200 taggeatteagaec 120 taggeatteagaec 1200 taggeatteagaec 1200 taggeatteagaec 1200 tagg
gtaggatge tectecatet gaetteagg geegggear ttatgattta gattttagag 660 geegggatgg ateceatgea gattttaggg gaaggattt ateagatttg gattttaggg 720 ceagagaaca gteeegttet gattttagga atagagatgt atetgatttg gaetttagag 780 acaaagaegg aacacaagta gaetttagag geegaggtte aggtaetaet gatetagaet 840 ttagggacag ggataegeea catteagatt teagaggtag acacegatet aggaetgate 900 aggattttag gggeagagag atgggatett gtatggaatt taaagatagg gagatgeee 960 ctgtggatee aaatattttg gattaeatte ageeetetae acaagataga gaacattetg gtatgaatgt gaacaggaga gaagaateea cacaegaeea taegatagaa aggeetgett 1080 ttggcattea gaagggagaa tttgageatt cagaaacaag agaaggagaa acacaaggtg tageetttga acatgagtet ecageagaet tteagaacag ceaaagteea gtteaagaee 1200 see 120
geoggatg atcecatgea gattttagg gaaggattt atcagatttg gattttagg 720 ceagagaaca gteeegttet gattttagga atagagatgt atctgatttg gactttagag 780 acaaagaegg aacacaagta gactttagag geogaggte aggtactact gatetagaet 840 ttagggacag ggataegeea catteagatt teagaggtag acacegatet aggaetgate 900 aggattttag gggeagagag atgggatett gtatggaatt taaagataga gagatgeee 960 ctgtggatee aaatattttg gattacatte ageeetetae acaagataga gaacattetg gatagaatgt gaacaggaga tttgageattacagaacaag agaaggagaa acacaaggtg 1080 ttggcatteaggaaggagaa tttgageattacagaacaag agaaggagaa acacaaggtg 1200 taggeatteaggaaggagaa tttgageattacagaacaag ceaaagteea gtteaagaec 1200 taggeatteaggagagae ceaagagaacaag ceaaagteea gtteaagaec 1200 taggeatteaggagagaa ceaagagagaa ceaaagagagaa acacaaggtg 1200 taggeatteaggagagaa tttgageattacagaacaag ceaaagteea gtteaagaec 1200 taggeatteaggagagaa ceaagagagaa ceaaagteea gtteaagaec 1200 taggeatteaggagagaa ceaagagagaa ceaaagteea gtteaagaec 1200 taggeatteaggagagaa ceaagagagaa ceaaagteea gtteaagaec 1200 taggeatteaggagagaa ceaaagagagaa ceaaagteea gtteaagaec 1200 taggeatteaggagagaa ceaaagagagaa ceaaagagagaa acacaagagagaa acacaagagagaa acacaagagagaa acacaagagagaa taggeatgagaa ceaaagagagaa ceaaagagagaa acacaagagagaa acacacaagagagaa acacacaagagagaa acacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaa acacacaagagagaaagaa
ccagagaaca gtcccgttct gattttagga atagagatgt atctgatttg gactttagag 780 acaaagacgg aacacaagta gactttagag gccgaggttc aggtactact gatctagact 840 ttagggacag ggatacgcca cattcagatt tcagaggtag acaccgatct aggactgatc 900 aggattttag gggcagagag atgggatctt gtatggaatt taaagatagg gagatgccc 960 ctgtggatcc aaatattttg gattacattc agccctctac acaagataga gaacattctg gtatgaatgt gaacaggaga gaagaatcca cacacgacca tacgatagaa aggcctgctt 1080 ttggcattca gaagggagaa tttgagcatt tcagaacag agaaggagaa acacaaggtg tagcctttga acatgagtct ccagcagact ttcagaacag ccaaagtcca gttcaagacc 1200 see 1200
acaaagacgg aacacaagta gactttagag geegaggtte aggtactact gatetagact ttagggacag ggatacgcca cattcagatt teagaggtag acacegatet aggactgate 900 aggattttag gggeagagag atgggatett gtatggaatt taaagatagg gagatgeece ctgtggatee aaatattttg gattacatte ageeetetac acaagataga gaacattetg gtatgaatgt gaacaggaga gaagaateea cacaegacea taegatagaa aggeetgett 1080 120 1200 1200 1200 1200 1200 1200
ttagggacag ggatacgcca cattcagatt tcagaggtag acaccgatct aggactgatc 900 aggattttag gggcagagag atgggatctt gtatggaatt taaagatagg gagatgccc 960 ctgtggatcc aaatattttg gattacattc agccctctac acaagataga gaacattctg gtatgaatgttgaacaggaga gaagaatcca cacacgacca tacgatagaa aggcctgctt ttggcattca gaagggagaa tttgagcatt cagaaacaag agaaggagaa acacaaggtg tagcctttga acatgagtct ccagcagact ttcagaacaag ccaaagtcca gttcaagacc 1200 gg acatgaga
aggattttag gggcagagag atgggatctt gtatggaatt taaagatagg gagatgcccc 960 ctgtggatcc aaatattttg gattacattc agccctctac acaagataga gaacattctg gtatgaatgt gaacaggaga gaagaatcca cacacgacca tacgatagaa aggcctgctt ttggcattca gaagggagaa tttgagcatt cagaaacaag agaaggagaa acacaaggtg tagcctttga acatgagtct ccagcagact ttcagaacag ccaaagtcca gttcaagacc 1200 ga acatgaga
ctgtggatcc aaatattttg gattacattc agccctctac acaagataga gaacattctg gtatgaatgt gaacaggaga gaagaatcca cacacgacca tacgatagaa aggcctgctt ttggcattca gaagggagaa tttgagcatt cagaaacaag agaaggagaa acacaaggtg tagcctttga acatgagtct ccagcagact ttcagaacag ccaaagtcca gttcaagacc 1020
gtatgaatgt, gaacaggaga gaagaatcca cacacgacca tacgatagaa aggcctgctt 1080% (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080%) (1080
ttggcattca gaagggagaa tttgagcatt cagaaacaag agaaggagaa acacaaggtg 1240tca gaaggaga tagcctttga acatgagtet ccagcagact ttcagaacag ccaaagteca gttcaagace 1200tga acatgaga
tagectttga acatgagtet ccagcagact ttcagaacag ccaaagteca gttcaagace 1200kg
aagataagto acagetteet ggacgtgaag agcagagtte agatgetggt etgtttaaag 1260greeneenee
aagaaggegg tetggaettt ettgggegge aagacacega ttacagaage atggagtace 1320393 tokksis
gtgatgtgga tcataggetg ccaggaagec agatgtttgg ctatggecag ageaagtett 1380
ttccagaggg caaaactgcc cgagatgccc aacgggacct tcaggatcaa gattatagga 1440 per caraacc
ccggcccaag tgaggagaaa cccagcaggc ttattcgatt aagtggggta cctgaagatg 1500
ccacaaaaga agagattett aatgetttte ggaeteetga tggeatgeet gtaaagaact 1560
tgcagttgaa ggagtataac acaggttacg actatggcta tgtctgcgtg gagttttcac 1620
tottggaaga tgccatcgga tgcatggagg ccaaccaggg aactctaatg atccaggaca 1680
aagaagttac cctggagtat gtatcaagcc tggatttttg gtactgcaaa cgatgtaagg 1740
caaacattgg tgggcaccga tcttcctgtt cattctgcaa gaacccaaga gaagtgacag 1800
aggecaagea agaattaata aeetaeeete ageeteagaa aacateeata eeageaeeat 1860
tggaaaaaca gcccaaccag cccctaagac cagctgataa ggaacctgaa cccaggaaga 1920
gggaagaagg ccaagagtca cgcttaggac atcaaaagag agaagcagaa aggtatctgc 1980
ctccttctcg aagggaaggg ccaactttcc gaagagaccg agagagggag tcatggtctg 2040
gagagacacg ccaggatgga gagagcaaaa ctatcatgct aaagcgtatc tatcgttcca 2100
caccacctga ggtgatagtg gaagtgctgg agccctatgt ccgccttact actgccaacg 2160
toogtatoat caagaacaga acaggoocta tggggcatac ctatggottt attgacotog 2220
actoccatgt ggaagotott ogtgtggtga agatottaca gaacottgat cogcoattta 2280
gcattgatgg gaagatggta gctgtaaacc tggccactgg aaaacgaaga aatgattctg 2340
gggaccattc tgaccacatg cattactatc agggtaaaaa atatttccga gataggaggg 2400
gaggtggcag aaattcagac tggtcttcag atacaaatcg acaaggacaa cagtcatcat 2460
ctgactgcta catatatgat tctgctagtg gctactatta tgaccccttg gcaggaactt 2520
attatgaccc caatacccag caagaagtet atgtgcccca ggatcctgga ttacctgagg 2580
aagaagagat caaggaaaaa aaacccacca gtcaaggaaa gtcaagtagc aagaaggaaa 2640

```
tgtctaaaag agatggcaag gagaaaaaag acagaggagt gacgaggttt caggaaaatg
            ccagtgaagg gaaggcccct gcagaagacg tctttaagaa gcccctgcct cctactgtga
            agaaggaaga gagtccccct ccacctaaag tggtaaaccc actgatcggc ctcttgggtg
           aatatggagg agacagtgac tatgaggagg aagaagagga ggaacagacc cctccccac
           agccccgcac agcacagccc cagaagcgag aggagcaaac caagaaggag aatgaagaag
           acaaactcac tgactggaat aaactggctt gtctgctttg cagaaggcag tttcccaata
           aagaagttet gateaaacae cageagetgt cagacetgea caageaaaae etggaaatee
           accggaagat aaaacagtet gagcaggage tagcetatet ggaaaggaga gaacgagagg
           gaaagtttaa aggaagagga aatgatcgca gggaaaagct ccagtctttt gactctccag
           aaaggaaacg gattaagtac teeagggaaa etgacagtga tegtaaactt gttgataaag
           aagatatcga cactagcagc aaaggaggct gtgtccaaca ggctactggc tggaggaaag
           ggacaggeet gggatatgge cateetggat tggetteate agaggagget gaaggeegga
           tgaggggccc cagtgttgga gcctcaggaa gaaccagcaa aagacagtcc aacgagactt
           atcgagatgc tgttcgaaga gtcatgtttg ctcgatataa agaactcgat taagaaagga
           actgttcttg ctgctagaac ttttttaaat aaactttttt tcaatgtgat taaaaaaaa
                 <210> 708
                 <211> 1123
                 <212> PRT
                 <213> Homo Sapiens
           Met Trp Gly Asp Ser Arg Pro Ala Asn Arg Thr Gly Pro Phe Arg Gly
                                             10
           Ser Gln Glu Glu Arg Phe Ala Pro Gly Trp Asn Arg Asp Tyr Pro Pro
                                          25
           Pro Pro Leu Lys Ser His Ala Gln Glu Arg His Ser Gly Asn Phe Pro
A Government of the
                   350 f %
                                      40
                                                        45 % 20 30 20 20 20 20 20 20
Gly Arg Asp Ser Leu Pro Phe Asp Phe Gln Gly His Ser Gly Pro Pro
        50
                  55
                                                     60 September 19 February 1941 1
Phe Ala Asnoval Glu Glu His Ser Phe Ser Tyr Gly AlagArg Asp Gly
TO PERSONAL 65 PROPERTY TO
                                                 75 13 144 144 144 144 144 180
           Pro His Gly Asp Tyr Arg Gly Glu Gly Pro Gly His Asp Phe Arg
                  85
                                                     95....
                                             90
           Gly Gly Asp Phe Ser Ser Ser Asp Phe Gln Ser Arg Asp Ser Ser Gln
                                         105
           Leu Asp Phe Arg Gly Arg Asp Ile His Ser Gly Asp Phe Arg Asp Arg
                                      120
           Glu Gly Pro Pro Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met Asp
                                  135
                                                     140
           Tyr Arg Gly Arg Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp Ala
                              150
                                                 155
           His Ala Val Asp Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe Arg
                                             170
           Gly Arg Gly Thr Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser His
                                         185
           Ala Asp Phe Arg Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala Arg
                                      200
           Glu Gln Ser Arg Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu Asp
                                  215
           Phe Arg Asp Lys Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly Ser
           225
                              230
                                                 235
           Gly Thr Thr Asp Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser Asp
                          245
                                             250
```

2700

2760

2820

2880

2940

3000

-3060

3120

3180

3240

3300

3360

3420

3480

3540

3599

Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro

** ** /// ///

ひ ブブ/ひがんひろ ま しょ/ じひノのよずり

Phe	Arg	Gly	Arg 260	His	Arg	Ser		Thr 265	Asp	GIn	Asp		Arg   270	GLY .	Arg
Glu	Met	Gly 275	Ser	Cys [.]	Met		Phe 280	Lys	Asp	Arg		Met 285	Pro	Pro	Val
Asp	Pro 290		Ile	Leu		Tyr 295	Ile	Gln	Pro	Ser	Thr 300	Gln'	Asp	Arg	Glu
His 305		Gly	Met	Asn	Val 310	Asn	Arg	Arg	Glu	Glu 315	Ser	Thr	His	Asp	His 320
	Ile	Glu	Arg	Pro		Phe	Gly	Ile	Gln 330		Gly	Glu	Phe	Glu 335	
Ser	Glu	Thr	Arg	Glu	Gly	Glu	Thr	Gln 345		Val	Ala	Phe	Glu 350	His	Glu
Ser	Pro	Ala 355	Asp	Phe	Gln	Asn	Ser 360	Gln	Ser	Pro	Val	Gln 365	Asp	Gln	Asp
Lys	Ser 370	Gln	Leu	Ser	Gly	Arg 375	Glu	Glu	Gln	Ser	Ser 380	Asp	Ala	Gly	Leu
Phe	_	Glu	Glu	Gly	Gly 390	Leu	Asp	Phe	Leu	Gly 395	Arg	Gln	Asp	Thr	Asp 400
Tyr	Arg	Ser	Met	Glu 405	Tyr	Arg	Asp	Val	Asp 410	His	Arg	Leu	Pro	Gly 415	Ser
Gln	Met 	Phe	Gly 420	Tyr	Gly	Gln	Ser	Lys 425	Ser		Pro		Gly 430	Lys	Thr
Ala	Arg	Asp		Gln	Arg	Asp	Leu 440	Gln	Asp	Gln	Asp	Tyr 445	Arg	Thr	Gly
Pro	Ser 450		Glu	Lys	Pro	Ser 455		Leu	Ile	Arg	Leu 460	Ser	Gly	Val	Pro
Glu 465	_	Ala	Thr	Lys	Glu 470	Glu	Ile	Leu		Ala 475		Arg	Thr	Pro	Asp 480
		Pro	Val	Lys 485			Gln								
Asp	туг	Gly	7 Tyr 500	Val			√Glu ~~√3							Ala	
Gly	, Сла	Met 515		ı Ala	Asn	Gln	∷Gly 520			∟Met	Ile	Gln 525		Lys	Glu
	530	)		ı Tyr		535	5				. 540				
Cys 545	-	s Ala	a Asr	ı Ile	Gly 550		/ His	Arg	Ser	Ser 555		Ser	Phe	Cys	Lys 560
			-	565	5				570	)				575	
Gl	n Pro	o Gli	n Lys 58		: Ser	Tle	e Pro	Ala 585		Let	ı Glu	Lys	590 590		Asn
Gl	n Pro	59		g Pro		a Asp	600 Fys		ı Pro	o Gli	ı Pro	Arg		Arg	Glu
	61	0				619	5 ·				620	)			Arg
Ту 62		u Pr	o Pr	o Se	r Arg		g Glu	ı Gly	y Pr	o Th:		e Arg	g Arg	J Asr	Arg 640
Gl	u Ar	g Gl	u Se	r Tr	_	r Gl	y Glu	ı Th:	r Ar 65		n Ası	o Gly	y Glu	Ser 659	: Lys
Th	r Il	e Me	t Le 66		s Ar	g Il	е Ту	c Ar		r Th	r Pro	o Pr	o Gli 670		L Ile
Va	1 Gl	u Va 67		u Gl	u Pr	о Ту	r Va 68		g Le	u Th	r Th	r Al		n Val	l Arg
11	e Il	e Ly	s As	n Ar	g Th	r Gl	y Pr	o Me	t Gl	у Ні	s Th	т Ту	r Gl	y Ph	e Ile

1.3 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 × 1.5 ×

A CONTRACTOR OF SAME O

		690					695					700				
,	0.5					10					715					Gln
A	sn	Leu	Asp	Pro	Pro 725	Phe	Ser	Ile	Asp	Gly 730	Lys	Met	Val	Ala		720 Asn
I	eu	Ala	Thr	Gly 740	Lys		Arg	Asn	Asp	Ser	Gly	Asp	His	Ser	735 Asp	His
M	let	His	Tyr	Tyr		Gly	Lys	Lys	Tyr	Phe	Arg	Asp	Arg	750 Arg	Gly	Gly
		Arg	155					760					765			Gln
		,,,				Tyr	//5					720				
,	03					790					795					000
	~ F				805		<u> </u>	1 <u>y L</u>	ASD	Pro	_Asn	Thr	_Gln	-Gln	-Gl-u	-Val-
T	vγ	V ⊃ l	Dro	~1 m		D	<b>63</b>		_	810					815	
				040		Pro			825					930		
			035			Gln		840					015			
		050				Glu	855					860				
G	lu	Asn	Ala	Ser	Glu	Gly	Lys	Ala	Pro	_Ala	.Glu.	Asp	Val.	Phe.	Tve.	Jargan
0	Q J					870					275					
					885	Val				890	Ser				00-	Lys
				900		Ile			905					010	Asp	
A	sp	Tyr	Glu :915	Glu	Glu	Glu	Glu	Glu 920	Glu	Gln	Thr	Pro		910 Pro	Gln	Pro
A	rq	Thr	Ala	Gln	Pro	Gln	Lve	Ara	Glu	·01.	<u>سا</u> ۵		925		_	:
	,	930:	-1.44.13	uliges in	i; .;		935	9	O.L.	·Giu	GIII		rys	Lys	Glu	Asn
G.	lu	Glu	Asp	Lvs	Leu	Thr	Asp	Trn	Δen	Tara	Tou	940	<b>~</b> .	_	_	
94	15		25	ekorta	en en en en En Estatue D	950				. цуъ	שפע	Ата	Cys	Leu	Leu	
Aı	rg	Arg	Gln	Phe	Pro	Asn	Lvs	Glu	ובעו	Lou	7700	T	***	~-	<b>-</b>	960
	_	_	: : .		965		-12	014		970	TTE	ьуѕ	HIS	GIn		Leu
Se	er.	Asp	Leu	His	Lvs	Gln	Asn	T.em	Glu	710	ui a	<b>3</b>	<b>.</b>		975	
				200					985					000		
			223			Ala		T000	)				1000			
		T 0 T 0				Asn	TOTE	)				1020				
56	er	Pro	Glu	Arg	Lys	Arg	Ile	Lys	Tyr	Ser	Arg	Glu	Thr	Asp	Ser	Asp
	, 2, ,					T030					1020					
					7042					1050	}					Gly
				7000	,	Thr			1065					3000	Gly	Tyr
			TO 13	•		Ala		Ser 1080	Glu	Glu			1000	Arg	Met	
G1	у :		Ser		Gly	Ala	Ser 1095	Gly	Arg	Thr	Ser	Lys	1085 Arg	Gln	Ser	Asn
Gl				Ara	Asp	Ala	Tal	Δνα	λ~~	1/o 1	Ma-	1100				
		Leu	•	<u>5</u>	<u>P</u>	1110	<b>7</b> A L	arg .	ur à	val	Met 1115	rne	Ala	Arg	Tyr	Lys 112
		u	- 1- P													

2002年11日本海上市

<210> 709 <211> 3807 <212> DNA

<213> Homo Sapiens

<400> 709

aaggaggagc gggccgtgga ggcttcgccg cctaggtact gctataacca gaatttggta 60 taaaaaggat ttacttgttg gggccctctt gataaaaaga gatgtggggg gattctcgac 120 ctgctaacag aactggacct tttcgagatg gcgtttcgcc gtgttggccg ggctggtctc 180 ggactcctga cctcaagtga tccacctacc tcggcctccc aaagtgctgg gactataggt 240 gtgagccacc gcacctgcca tttggattgg caatctgcaa gattttatta cttaaatgca 300 acagatgttc tcattcattg ttctgaagct tggagttcca atgaaaaatt tagtgggagc 360 caagaagaaa ggtttgctcc cgggtggaac agggattatc ctcctcctcc ccttaagagt 420 catgctcaag agagacactc tggcaacttt cctggcagag attcacttcc ctttgatttc 480 caggggcatt cggggcctcc ttttgcaaat gtagaggagc attctttcag ctatggagct 540 agagacggac cgcatggtga ctatcgagga ggggagggac ctggacatga tttcaggggg 600 ggagattttt cgtcttctga tttccagagc agagattcat cacagttgga cttcaggggt 660 agggacatac attctgggga ttttcgggat agagaaggac cacctatgga ctataggggt 720 ggagatggta cttctatgga ttatagaggt agggaggcac ctcatatgaa ctacagagac 780 agggatgete acgetgttga etteagaggt agggatgete etecatetga etteagggge 840 cggggcactt atgatttaga ttttagaggc cgggatggat cccatgcaga ttttagggga 900 agggatttat cagatttgga ttttagggcc agagaacagt cccgttctga ttttaggaat 960 agagatgtat ctgatttgga ctttagagac aaagacggaa cacaagtaga ctttagaggc 1020 cgaggttcag gtactactga tctagacttt agggacaggg atacgccaca ttcagatttc 1080 agaggtagac accgatctag gactgatcag gattttaggg gcagagagat gggatcttgt 1140 atggaattta aagataggga gatgcccct gtggatccaa atattttgga ttacattcag 1200 1260 ccctctacac aagatagaga acattctggt atgaatgtga acaggagaga agaatccaca cacgaccata cgatagaaag gcctgctttt ggcattcaga agggagaatt tgagcattca 1320 gaaacaagag aaggagaaac acaaggtgta gcctttgaac atgagtctcc agcagacttt 🛷 1380 cagaacagec aaagtecagt teaagaecaa gataagteae agetttetgg aegtgaagag 1440 cagagttcag atgctggtct gtttaaagaa gaaggcggtc tggactttct tgggcggcaa 1500 #4.38884 | First gacacogatt acagaagcat ggagtacogt gatgtggatc ataggotgcc@aggaagccags - 1560 atgtttggct atggccagag caagtctttt ccagagggca aaactgcccg agatgcccaa 1620 cgggacette aggateaaga ttataggace ggeecaagtg aggagaaace cageaggett 1680 attcgattaa gtggggtacc tgaagatgcc acaaaagaag agattcttaa tgcttttcgg 1740 actcctgatg gcatgcctgt aaagaacttg cagttgaagg agtataacac aggttacgac 1800 tatggctatg totgcgtgga gttttcactc ttggaagatg ccatcggatg catggaggcc 1860 aaccagggaa ctctaatgat ccaggacaaa gaagttaccc tggagtatgt atcaagcctg 1920 gatttttggt actgcaaacg atgtaaggca aacattggtg ggcaccgatc ttcctgttca 1980 ttctgcaaga acccaagaga agtgacagag gccaagcaag aattaataac ctaccctcag 2040 cctcagaaaa catccatacc agcaccattg gaaaaacagc ccaaccagcc cctaagacca 2100 getgataagg aacetgaace caggaagagg gaagaaggee aagagteacg ettaggacat 2160 caaaagagag aagcagaaag gtatctgcct ccttctcgaa gggaagggcc aactttccga 2220 agagaccgag agagggagtc atggtctgga gagacacgcc aggatggaga gagcaaaact 2280 atcatgctaa agcgtatcta tcgttccaca ccacctgagg tgatagtgga agtgctggag 2340 2400 gggcatacct atggctttat tgacctcgac tcccatgtgg aagctcttcg tgtggtgaag 2460 atcttacaga accttgatcc gccatttagc attgatggga agatggtagc tgtaaacctg 2520 gccactggaa aacgaagaaa tgattctggg gaccattctg accacatgca ttactatcag 2580 2640 ggtaaaaaat atttccgaga taggagggga ggtggcagaa attcagactg gtcttcagat acaaatcgac aaggacaaca gtcatcatct gactgctaca tatatgattc tgctagtggc 2700 tactattatg acccettgge aggaacttat tatgacccca atacccagca agaagtetat 2760 gtgccccagg atcctggatt acctgaggaa gaagagatca aggaaaaaaa acccaccagt 2820 caaggaaagt caagtagcaa gaaggaaatg tctaaaaagag atggcaagga gaaaaaagac 2880 agaggagtga cgaggtttca ggaaaatgcc agtgaaggga aggcccctgc agaagacgtc 2940

エ シェル ししょりは エマリノ

or Agrani

a salas.

Later Broken

35 5 W.

エシエノリンジノスマンノ

```
tttaagaagc ccctgcctcc tactgtgaag aaggaagaga gtccccctcc acctaaagtg
                                                                      3000
gtaaacccac tgateggeet ettgggtgaa tatggaggag acagtgacta tgaggaggaa
                                                                     3060
gaagaggagg aacagacccc teecceacag eecegcacag cacageccca gaagegagag
                                                                     3120
gagcaaacca agaaggagaa tgaagaagac aaactcactg actggaataa actggcttgt
                                                                     3180
ctgctttgca gaaggcagtt tcccaataaa gaagttctga tcaaacacca gcagctgtca
                                                                     3240
gacctgcaca agcaaaacct ggaaatccac cggaagataa aacagtctga gcaggagcta
                                                                     3300
gcctatctgg aaaggagaga acgagaggga aagtttaaag gaagaggaaa tgatcgcagg
                                                                     3360
gaaaagetee agtettttga eteteeagaa aggaaaegga ttaagtaete cagggaaaet
                                                                     3420
gacagtgate gtaaacttgt tgataaagaa gatategaca etageageaa aggaggetgt
                                                                     3480
gtccaacagg ctactggctg gaggaaaggg acaggcctgg gatatggcca tcctggattg
                                                                    ₹3540
getteateag aggaggetga aggeeggatg aggggeecea gtgttggage etcaggaaga
                                                                     3600
accagcaaaa gacagtccaa cgagacttat cgagatgctg ttcgaagagt catgtttgct
                                                                     3660
cgatataaag aactcgatta agaaaggaga caagttccat gggatacaac ctccctcttg
                                                                     3720
ttttgtttgt ctctcctttt cttttgttac tgttcttgct gctagaactt ttttaaataa
                                                                     3780
acttttttc aatgtgatta aaaaaaa
                                                                     3807
```

<210> 710 <211> 1177 <212> PRT <213> Homo Sapiens

<400> 710

ママ 😉 ノノ/ひマルひろ

Met 1	Ala	Phe	Arg	Arg 5	Val	Gly	Arg	Ala	Gly 10	Leu	Gly	Leu	Leu	Thr 15	Ser
Ser	Asp	Pro	Pro 20	Thr	Ser	Ala	Ser	Gln 25	Ser		Gly	Thr	Ile 30	Gly	Val
Ser	His	Arg 35	Thr	Cys	His	Leu		Trp		Ser	Ala	Arg 45	Phe	Tyr	Tyr
Leu	Asn 50	Ala	Thr	Asp	Val	Leu 35534	Ile	His	Cys	Ser				Ser	Ser
Asn	Glu	Lvs	Phe	Ser	Gly	Ser	Gln	. : : : : :	G3.11	7 ~~~	Db-	: 33 -			
65					70,	Barre &	Migra ar	es ditti	÷.	75					80
Asn	Arg	Asp	Tyr	Pro	Pro	Pro	Pro.	Leu	Lys	Ser	His	Ala	Gln	Glu	Ara
		•		85					90					95	
His	Ser	Gly	Asn	Phe	Pro	Gly	Arg	Asp	Ser	Leu	Pro	Phe	Asp	Phe	Gln
			100					105					110		
Gly	His	Ser	Gly	Pro	Pro	Phe	Ala	Asn	Val	Glu	Glu	His	Ser	Phe	Ser
		115					120					125			
Tyr	Gly	Ala	Arg	Asp	Gly	Pro	His	Gly	Asp	Tyr	Arg	Gly	Gly	Glu	Gly
	130					135					140				-
Pro	Gly	His	Asp	Phe	Arg	Gly	Gly	Asp	Phe	Ser	Ser	Ser	Asp	Phe	Gln
145					150					155			**		160
Ser	Arg	Asp	Ser	Ser	Gln	Leu	Asp	Phe	Arg	Gly	Arg	Asp	Ile	His	Ser
				165					170.					175	
Gly	Asp	Phe	Arg	Asp	Arg	Glu	Gly	Pro	Pro	Met	Asp	Tyr	Arq	Gly	Glv
			180					185					1.90		
Asp	Gly	Thr	Ser	Met	Asp	Tyr	Arg	Gly	Arg	Glu	Ala	Pro	His	Met	Asn
		195					200					205			
Tyr	Arg	Asp	Arg	Asp	Ala	His	Ala	Val	Asp	Phe	Arg	Gly	Arg	Asp	Ala
	210					215					220-				
Pro	Pro	Ser	Asp	Phe	Arg	Gly	Arg	Gly	Thr	Tyr	Asp	Leu	Asp	Phe	Arq
225					230					235					240
Gly	Arg	Asp	Gly	Ser	His	Ala	Asp	Phe	Arg	Gly	Arg	Asp	Leu	Ser	qzA
				245					250					255	
Leu	Asp	Phe	Arg	Ala	Arg	Glu	Gln	Ser	Arg	Ser	Asp	Phe	Arg	Asn	Arg
													_		_

			260					065					270			
<b>3</b>	· · · · · · · · · · · · · · · · · · ·	Com	260					265	Tare	Asp (	21 v 5			Val	Asn	•
Asp		275	Asp	пеп	Asp		Arg . 280	ASD	шуз.	rab (		285	G 111	Val	nop	
tiha			λrα	Gl v	Ser			ጥኮዮ	Asp	Leu i			Ara	Asp	Arg	
	_	Grà	Arg	G I.y		295	1111	T 141	rop		300		5		5	
	290	Dric	Wid	cor			Dr.CT	വ	Δrσ	His :		Ser	Ara	Thr	Asp	
_			uis	ser.	310	FIIC	Arg	Gry		315					320	
305		Dl		<b>03</b>		<b>61</b>	Mob	dī.		Cys :				Taze		
GIn	Asp	Pne	Arg			GIU	Mer	GIY	330	Суз	ייייייי	JIU	ب	335	тэр	•
_			_	325		<b>3</b>	D	7		τ	7.00	T-1	TΙΛ		Dro	
Arg	GLu	Met			val	Asp			TIE	Leu	Asp		350	GIII	PIO	·
		~ 3	340	-	~7.	**! _		345	24	7	3707			7~~	C7.,	
Ser	Thr		Asp	Arg	GIU			GIA	Mec	Asn		365	Ary	wind	Giu	
		355		_	•		360	<b>~</b> 3		D			~1	T1.	۵1	
 Glu		Thr	His	Asp	His		TTE	GIU	Arg	Pro	380	Pile	GIY	116	Gln	· .
	370	<b>-</b>				375								<u>ما</u>	α1	·
_	Gly.	Glu	Phe	Glu		Ser	GIU	Thr		Glu	GIY	Giu	IIIL	GIII	400	
385				•	390	_	<b>-</b>									
Val	Ala	Phe	Glu		GIu	Ser	Pro	Ата		Phe	GIII	ASII	ser		ser	
	_		_	405	_	_	_	~7	410	0 - 11	<b>~</b> 1	7	~1	415	~1 m	
Pro	Val	Gln		GIn	Asp	гàг	ser		ьeu	Ser	GIA	Arg		GIU	GIII	
			420		_		<b>-</b>	425	<b>~</b> 1	<b>~</b> 1	<b>a</b> 1	T	430	Dha	T	
Ser	Ser			Gly	Leu	Pne		GIU	GIU	Gly	етА	Leu	Asp	Pne	Leu	
_	_	435		_,	_		440									
Gly	_		Asp	Thr	Asp		Arg	ser	мес	Glu		Arg	Asp	val	Asp	
	450				_	455	<b></b>	D1	<b>63</b>	M	460	~1 ~	000	7	0.00	
	_	Leu	Pro	GIY				Pne		Tyr	GIA	GIII	ser	пув		
										425						
465	_			_	470			7		475	7	7 ~~	T 011	~1 ~	480	
Phe	Pro	Glu	Gly	Lys	Thr	Ala	Arg	Asp	Ala	Gln					Asp	
Phe	Pro	;Glu k⇔st	Gly	Lys 485	Thr	Ala	Arg	Asp	Ala 490	Gln				495	Asp	Association and the
Phe Gln	Pro Asp	Glu de t Tyr	Gly Arg	Lys 485 Thr	Thr Gly	Ala Pro	Arg Ser	Asp Glu	Ala 490 Glu	Gln Lys	Pro	Ser	Arg	495 Leu	Asp Ile	A BOS COLLEGE CONTRACTOR OF THE COLLEGE CONTRACTOR OF THE COLLEGE CONTRACTOR OF THE COLLEGE COLLEGE COLLEGE CO
Phe Gln	Pro Asp	. Glu k⇔sb .√Tyr	Gly Arg	Lys 485 Thr	Thr Gly	Ala Pro	Arg Ser	Asp Glu 505	Ala 490 Glu	Gln Lys	Pro	Ser	Arg 510	495 Leu	Asp Ile	A ROS TOTA ROS AND A SECOND CONTRACTOR OF THE CO
Phe Gln 7.0	Pro S Asp S Leu	Glu Last Tyr Ser	Gly Arg 500 Gly	Lys 485 Thr Val	Thr Gly Pro	Ala Pro Glu	Arg Ser Asp	Asp Glu 505 Ala	Ala 490 Glu Thr	Gln Lys Lys	Pro Glu	Ser Glu	Arg 510 Ile	495 Leu Leu	Asp Ile Asn	A SECTION STATES AND A SECTION OF THE SECTION OF TH
Phe Gln 7.0 Arg	Pro Asp Leu	Glu Anto Tyr Ser Ser	Gly Arg 500 Gly	Lys 485 Thr Val	Thr Gly Pro	Ala Pro Glu	Arg Ser Asp	Asp Glu 505 Ala	Ala 490 Glu Thr	Gln Lys Lys	Pro Glu	Ser Glu 525	Arg 510 Ile	495 Leu Leu	Asp Ile Asn	A BOS TOTA BOS AND TO THE OPEN OF THE OPEN OPEN OF THE OPEN OPEN OF THE OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPE
 Phe Gln Arg	Pro Asp Leu Phe	Glu Tyr Ser 515	Gly Arg 500 Gly Thr	Lys 485 Thr Val	Thr Gly Pro	Ala Pro Glu Gly	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro	Ala 490 Glu Thr	Gln Lys Lys	Pro Glu Asn	Ser Glu 525	Arg 510 Ile	495 Leu Leu	Asp Ile Asn	A BOST TOTA BOST OF A SECOND STATE OF A SECOND S
Phe Gln Arg Ala	Pro Asp Leu Phe	Glu Tyr Ser 515	Gly Arg 500 Gly Thr	Lys 485 Thr Val	Thr Gly Pro Asp	Ala Pro Glu Gly 535	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro	Ala 490 Glu Thr	Gln Lys Lys	Pro Glu Asn 540	Ser Glu 525 Leu	Arg 510 Ile Gln	495 Leu Leu	Asp Ile Asn Lys	不養的 1975 養育 (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5) (4.5)
Phe Glm Arg Ala	Pro Asp Leu Phe 530	Glu Tyr Ser 515	Gly Arg 500 Gly Thr	Lys 485 Thr Val	Thr Gly Pro Asp	Ala Pro Glu Gly 535 Asp	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro	Ala 490 Glu Thr	Gln Lys Lys Lys Val	Pro Glu Asn 540 Cys	Ser Glu 525 Leu	Arg 510 Ile Gln	495 Leu Leu	Asp Ile Asn Lys	A BOUTTE A BOUTTE A COMMENTAL OF THE COMMENT OF THE
Phe Gln Arg Ala Glu	Pro Asp Leu Phe 530	Glu Tyr Ser 515 Arg	Gly Solution Gly Thr Thr	Lys 485 Thr Val	Thr Gly Pro Asp Tyr 550	Pro Glu Gly 535 Asp	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro	Ala 490 Glu Thr Val	Gln Lys Lys Lys Val 555	Pro Glu Asn 540 Cys	Ser Glu 525 Leu Val	Arg 510 Ile Gln	Leu Leu Leu Phe	Asp Ile Asn Lys Ser 560	A BOUTTE A BOUTTE A COMMENTAL OF THE COMMENT OF THE
 Phe Gln Arg Ala Glu	Pro Asp Leu Phe 530	Glu Tyr Ser 515 Arg	Gly Solution Gly Thr Thr	Lys 485 Thr Val Pro	Thr Gly Pro Asp Tyr 550	Pro Glu Gly 535 Asp	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro	Ala 490 Glu Thr Val Tyr	Lys Lys Lys Lys Val 555 Ala	Pro Glu Asn 540 Cys	Ser Glu 525 Leu Val	Arg 510 Ile Gln	495 Leu Leu Leu Phe	Asp Ile Asn Lys Ser 560	A BOUTTE A BOUTTE A COMMENTAL OF THE COMMENT OF THE
Phe Glin Arg Ala Gli 545 Lei	Pro Asp Leu Dhe 530 Tyr Leu Leu	Glu Attyr Ser SSP Arg Arg Asr	Gly 500 Gly Thr	Lys 485 Thr Val Pro Gly Ala 565	Thr Gly Pro Asp Tyr 550	Pro Glu Gly 535 Asp	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro Gly Met	Ala 490 Glu Thr Val Tyr Glu 570	Lys Lys Lys Val 555 Ala	Pro Glu Asn 540 Cys Asn	Ser Glu 525 Leu Val	Arg 510 Ile Gln Glu	Leu Leu Phe	Asp Ile Asn Lys Ser 560	A BOST TOTA BOST AND
Phe Glin Arg Ala Gli 545 Lei	Pro Asp Leu Dhe 530 Tyr Leu Leu	Glu Attyr Ser SSP Arg Arg Asr	Gly 500 Gly Thr Thr Asp	Lys 485 Thr Val Pro Gly Ala 565	Thr Gly Pro Asp Tyr 550	Pro Glu Gly 535 Asp	Arg Ser Asp 520 Met	Asp Glu 505 Ala Pro Gly Met	Ala 490 Glu Thr Val Tyr Glu 570	Lys Lys Lys Val 555 Ala	Pro Glu Asn 540 Cys Asn	Ser Glu 525 Leu Val	Arg 510 Ile Gln Glu Gly Ser	Leu Leu Phe Thr 575	Asp Ile Asn Lys Ser 560	A BOST TOTA BOST AND
Phe Glin Arg Ala Gli 545 Lei	Pro Asp Leu Dhe 530 Tyr Leu	Glu Tyr Ser Ser 7515 Arg Asr Glu	Gly 500 Gly Thr Thr Asp Asp	Lys 485 Thr Val Pro Gly Ala 565 Lys	Thr Gly Pro Asp Tyr 550 Ile	Pro Glu Gly 535 Asp Gly	Arg Ser Asp 520 Met Tyr Cys	Asp Glu 505 Ala Pro Gly Met	Ala 490 Glu Thr Val Tyr Glu 570	Lys Lys Lys Val 555 Ala	Pro Glu Asn 540 Cys Asn Val	Ser Glu 525 Leu Val Gln Ser	Arg 510 Ile Gln Glu Gly Ser 590	Leu Leu Phe Thr	Asp Ile Asn Lys Ser 560 Leu Asp	A BOUTTE A BOUTTE A CONTROL OF THE C
Phe Glin Arg Ala Gli 545 Lei	Pro Asp Leu Dhe 530 Tyr Leu	Glu And Ser XSer XS15 Arg Arg Cli	Gly Solution Gly Thr Thr Asp Asp Solution Cys	Lys 485 Thr Val Pro Gly Ala 565 Lys	Thr Gly Pro Asp Tyr 550 Ile	Pro Glu Gly 535 Asp Gly	Arg Ser Asp 520 Met Tyr Cys Thr	Asp Glu 505 Ala Pro Gly Met	Ala 490 Glu Thr Val Tyr Glu 570	Lys Lys Lys Val 555 Ala	Pro Glu Asn 540 Cys Asn Val	Ser Glu 525 Leu Val Gln Ser Gly	Arg 510 Ile Gln Glu Gly Ser 590 His	Leu Leu Phe Thr	Asp Ile Asn Lys Ser 560	A BOUTTE A BOUTTE A CONTROL OF THE C
Phe Glin Arg Ala Gli 545 Lei Met	Pro Asp Leu Phe 530 Tyr Leu Leu Trp	Glu Anst ATyx Ser AS AS Clu	Gly Solution Gly Thr Thr Asp Asp Cys Cys	Lys 485 Thr Val Pro Gly Ala 565 Lys	Thr Gly Pro Asp Tyr 550 Ile	Pro Glu Gly 535 Asp Gly Val	Arg Ser Asp 520 Met Tyr Cys Thr	Asp Glu 505 Ala Pro Gly Met	Ala 490 Glu Thr Val Tyr Glu 570 Glu Asr	Lys Lys Val 555 Ala Tyr	Pro Glu Asn 540 Cys Asn Val	Ser Glu 525 Leu Val Gln Ser Gly 605	Arg 510 Ile Glu Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu	Asp Ile Asn Lys Ser 560 Leu Asp Asp	の動物では、大変なない。 の対象のでは、大変なない。 のでは、これでは、大変なない。 のでは、大変ないというない。 では、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ
Phe Glin Arg Ala Gli 545 Lei Met	Pro Asp Lev Phe 530 Tyr i Lev Trp Cyr	Glu ATY Ser TS15 Arg Asr Glu Glu TY 59 S Se	Gly Solution Gly Thr Thr Asp Asp Cys Cys	Lys 485 Thr Val Pro Gly Ala 565 Lys	Thr Gly Pro Asp Tyr 550 Ile	Ala Pro Glu Gly 535 Asp Gly Val Cys	Arg Ser Asp 520 Met Tyr Cys Thr 600	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu 6 Asr	Lys Lys Val 555 Ala Tyr	Pro Glu Asn 540 Cys Asn Val Gly	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu	Arg 510 Ile Glu Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu	Asp Ile Asn Lys Ser 560 Leu Asp	の動物では、大変なない。 の対象のでは、大変なない。 のでは、これでは、大変なない。 のでは、大変ないというない。 では、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ
Glin Arg	Pro Asp Leu Dhe 530 Tyr Leu Trr Cyr 61	Glu Tyx Ser TS15 Arg Asr Gli Gli TY: 59: Se: Se:	Gly Solver Gly Thr Thr Asp Solver Cys The	Lys 485 Thr Val Pro Gly Ala 565 Lys Lys	Thr Gly Pro Asp 550 Ile Gly Gly SLy	Ala Pro Glu Gly 535 Asp Gly Val Cys Asr 615	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu 6 Asr	Lys Lys Lys Val 555 Ala Tyr Ile	Pro Glu Asn 540 Cys Asn Val Gly Thr 620	Ser Glu 525 Leu Val Gln Ser Gly 605	Arg 510 Ile Glu Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu Arg	Asp Ile Asn Lys Ser 560 Leu Asp Ser Ser Glr	A BOLL TO THE BOLL TO A SECOND TO THE SECOND
Phe Glin Arg Ala Sli Eu Met Phe Se:	Pro Asp Leu Dhe 530 Tyr Leu Cr Cyr 61 U Le	Glu Tyx Ser TS15 Arg Asr Gli Gli TY: 59: Se: Se:	Gly Solver Gly Thr Thr Asp Solver Cys The	Lys 485 Thr Val Pro Gly Ala 565 Lys Lys	Thr Gly Pro Asp 550 Ile Gly Fro Lys	Ala Pro Glu Gly 535 Asp Gly Val Cys S Asr 615 CGlr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu 6 Asr	Lys Lys Val 555 Ala Tyr Ile Val Val	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser	Ser Glu 525 Leu Val Gln Ser Gly 605	Arg 510 Ile Glu Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu Arg	Asp Ile Asn Lys Ser 560 Leu Asp Ser Glr	本書店では代表では、 では、 では、 では、 では、 では、 では、 では、
Phe Glin Arg Ala Sli 545 Let Met Phe Se: Gli 62	Pro Asp Leu Dhe 530 Tyr Leu Cyr 61 U Le	Glu Aryx Ser Tys Arg Arg Clu Arg Tys Ser Asr Clu	Gly Solver Gly Thr Thr Asp Cys The The The	Lys 485 Thr Val Pro Gly Ala 565 Lys Lys Cys	Thr Gly Pro Asp Tyr 550 Ile Gly Arg Lys	Ala Pro Glu Gly 535 Asp Gly Val Cys Asr 615 CGlr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala D Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu Glu Glu Glu Lys	Lys Lys Val 555 Ala Tyr Ual Val Thr	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu	Arg 510 Ile Gln Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu Arg	Asp Ile Asn Lys Ser 560 Leu Asp Ser Glr Asp	本書店では代表では、100mmの では、100mmのでは、100mmのでは、100mmの では、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mm
Phe Glin Arg Ala Sli 545 Let Met Phe Se: Gli 62	Pro Asp Leu Dhe 530 Tyr Leu Cyr 61 U Le	Glu Aryx Ser Tys Arg Arg Clu Arg Tys Ser Asr Clu	Gly Solver Gly Thr Thr Asp Cys The The The	Lys 485 Thr Val Pro Gly Ala 565 Lys Lys Cys Ty: n Pro	Thr Gly Pro Asp Tyr 550 Ile Gly Arg Character Arg Arg Character Arg Char	Ala Pro Glu Gly 535 Asp Gly Val Cys Asr 615 CGlr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu Glu Glu Lys	Lys Lys Val 555 Ala Tyr Ile Val 635	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu	Arg 510 Ile Gln Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu Arc Arc Ala Gl	Asp Ile Asn Lys Ser 560 Leu Asp Ser Glr App 640 U Pro	本書店では代表では、100mmの では、100mmのでは、100mmのでは、100mmの では、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mm
Glin Arg	Pro Asp Leu 1 Phe 530 1 Tyr 1 Leu 2 Ile 2 Tr 2 61 1 Le 5 U Gl	Glu Anst Ser Arg Arg Charles Glu Charles G	Gly SATG SOO Gly Thr Thr Asp Cys T Phe E Th:	Lys 485 Thr Val Pro Gly Ala 565 Lys Lys Cys TY TY 64	Thr Gly Pro Asp Tyr 550 Ile Gly Arg Character Arg Arg Character Arg Char	Ala Pro Glu Gly 535 Asp Cly Val Cys Asr 619 Glr Glr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu Glu Asr Glu Ar 650	Lys Lys Val 555 Ala Tyr Ile Val 635 Pro	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu Ile	Arg 510 Ile Glu Glu Gly Ser 590 His	Leu Leu Phe Thr 575 Leu Arc Arc Gl 65	Asp Ile Asn Lys Ser 560 Leu Asp Ser Glr Apro	
Glin Arg	Pro Asp Leu 1 Phe 530 1 Tyr 1 Leu 2 Ile 2 Tr 2 61 1 Le 5 U Gl	Glu Anst Ser Arg Arg Charles Glu Charles G	Gly  Arg  500  Gly  Thr  Asp  Asp  Cys  The  Cys  The  Gli  Gly  Gly  Gly  Gly  Gly  Gly  Gly	Lys 485 Thr Val Pro Gly Ala 565 Lys Cys r Ty: n Pr 64 s Ar	Thr Gly Pro Asp Tyr 550 Ile Gly Arg Character Arg Arg Character Arg Char	Ala Pro Glu Gly 535 Asp Cly Val Cys Asr 619 Glr Glr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu 610 Asr Glu Arg 650 Gli	Lys Lys Val 555 Ala Tyr Ile Val 635 Pro	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu Ile	Arg 510 File Glu Glu Gly Ser 590 His Ala Pro Lys	Leu Leu Phe Thr 575 Leu Arg A Lys 65 7 Hi	Asp Ile Asn Lys Ser 560 Leu Asp Ser Glr App 640 U Pro	
Phe Glin Arg	Pro Asp Leu Phe 530 Leu Tyr Leu Leu Cyr 61 Leu Le 53 U Le 54 U Le 54 U Le 55 U Le 54 U Le 55 U Le 55 U Le 56 U Le 57 U Le 57 U Le 58 U Le 59 U	Glu  Ass  Ass  Gli  Ty:  Ser  Ser  Ser  Ass  Ass  Gli  Gli  Gli  Gli  Gli  Gli  Gli  G	Gly  Arg  500  Gly  Thr  Asp  Asp  Cys  r Cys  r Phe  g Ly  66	Lys 485 Thr Val Pro Gly Ala 565 Lys Cys r Ty: n Pr 64 s Ar	Thr Gly Pro Asp 550 Ile Gly Fro Arg Gly Gly Gl	Ala Pro Glu Gly 535 Asp Gly Val Cys Asr 619 Glr Glr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg	Ala 490 Glu Thr Val Tyr Glu 570 Glu 610 Asr 650 Clu 650	Lys Lys Lys Val 5555 Ala Tyr Val SThr 635	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser Ala	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu Ile	Arg 510 Ile Glu Glu Gly Ser 590 His Als Pro Lys	Leu Leu Leu Phe Thr 575 Leu Arg Ala 65 y Hi	Asp Ile Asn Lys Ser 5600 Leu Asp Ser 640 U Pro 5 Glr	
Phe Glin Arg	Pro Asp Leu Phe 530 Leu Tyr Leu Leu Cyr 61 Leu Le 53 U Le 54 U Le 54 U Le 55 U Le 54 U Le 55 U Le 55 U Le 56 U Le 57 U Le 57 U Le 58 U Le 59 U	Glu ATY ASI	Gly SATG SOO Gly Thr Thr Asp Cys The The Gly	Lys 485 Thr Val Pro Gly Ala 565 Lys Cys r Ty: n Pr 64 s Ar	Thr Gly Pro Asp 550 Ile Gly Fro Arg Gly Gly Gl	Ala Pro Glu Gly 535 Asp Gly Val Cys Asr 619 Glr Glr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg O Gli O Lei y Gli u Pr	Ala 490 Glu Thr Val Tyr Glu 570 Glu 610 Asr 650 Clu 650	Lys Lys Lys Val 5555 Ala Tyr Val SThr 635	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser Ala	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu Ile	Arg 510 Ile Glu Gly Ser 590 His Ala Pro Ly: 67	Leu Leu Leu Phe Thr 575 Leu Arg Ala 65 y Hi	Asp Ile Asn Lys Ser 560 Leu Asp Ser Glr Apro	
Phe Glin Arg	Pro Asp Leu Phe 530 Tyr Leu Cle Clu Cle	Glu Ly Ser	Gly SATG SOO Gly Thr Thr Asp Cys	Lys 485 Thr Val Pro Gly Ala 565 Lys Cys Ty: n Pro 64 S Ar 0 a Gl	Thr Gly Pro Asp 550 Ile Gly S Arg C Arg G Arg G Arg G Arg G Arg C	Ala Pro Glu Gly 535 Asp Gly Val Cys S Asr 615 O Glr u Glr u Glr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro Pro u Gl:	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg O Gli O Lei y Gli 66 u Pr	Ala 490 Glu Thr Val Tyr Glu 570 Glu Glu Asr Gli Asr Gli Co Pro	Lys Lys Lys Val 555 Ala Tyr Val SThr 635 Pro	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser Arg	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu Ile	Arg 510 Ile Glu Glu Gly Ser 590 His Ala Pro Lys 677 G Gl	Leu Leu Phe Thr 575 Leu Arc Arc Arc Hi O Hi O U G1	Asp Ile Asn Lys Ser 560 Leu G Ser Glr G G Pro 640 U Pro 5 Glr	
Phe Glin Arg	Pro Asp Leu Phe 530 Tyr Leu Cle Clu Cle	Glu Asr Ser Sistematical Glu Control C	Gly SATG SOO Gly Thr Thr Asp Cys	Lys 485 Thr Val Pro Gly Ala 565 Lys Cys Ty: n Pro 64 S Ar 0 a Gl	Thr Gly Pro Asp 550 Ile Gly S Arg C Arg G Arg G Arg G Arg G Arg C	Ala Pro Glu Gly 535 Asp Gly Val Cys S Asr 615 O Glr u Glr u Glr	Arg Ser Asp 520 Met Tyr Cys Thr 600 Pro Dr Dr Ch Pro Ch Arg	Asp Glu 505 Ala Pro Gly Met 585 Ala O Arg O Gli O Lei y Gli 66 u Pr	Ala 490 Glu Thr Val Tyr Glu 570 Glu Glu Asr Gli Asr Gli Co Pro	Lys Lys Lys Val 555 Ala Tyr Val SThr 635 Pro	Pro Glu Asn 540 Cys Asn Val Gly Thr 620 Ser Arg	Ser Glu 525 Leu Val Gln Ser Gly 605 Glu Ile Asp 689 689	Arg 510 Ile Glu Glu Gly Ser 590 His Ala Pro Lys 677 G Gl	Leu Leu Phe Thr 575 Leu Arc Arc Arc Hi O Hi O U G1	Asp Ile Asn Lys Ser 5600 Leu Asp Ser 640 U Pro 5 Glr	

Gln Asp Gly Glu Ser Lys Thr Ile Met Leu Lys Arg Ile Tyr Arg Ser 710 715 Thr Pro Pro Glu Val Ile Val Glu Val Leu Glu Pro Tyr Val Arg Leu 725 730 Thr Thr Ala Asn Val Arg Ile Ile Lys Asn Arg Thr Gly Pro Met Gly 745 His Thr Tyr Gly Phe Ile Asp Leu Asp Ser His Val Glu Ala Leu Arg 760 Val Val Lys Ile Leu Gln Asn Leu Asp Pro Pro Phe Ser Ile Asp Gly 775 780 Lys Met Val Ala Val Asn Leu Ala Thr Gly Lys Arg Arg Asn Asp Ser 790 795 Gly Asp His Ser Asp His Met His Tyr Tyr Gln Gly Lys Lys Tyr Phe 805 810 Arg Asp Arg Arg Gly Gly Arg Asn Ser Asp Trp Ser Ser Asp Thr 825 Asn Arg Gln Gly Gln Gln Ser Ser Ser Asp Cys Tyr Ile Tyr Asp Ser 840 Ala Ser Gly Tyr Tyr Tyr Asp Pro Leu Ala Gly Thr Tyr Tyr Asp Pro 855 Asn Thr Gln Glu Val Tyr Val Pro Gln Asp Pro Gly Leu Pro Glu 870 875 880 Glu Glu Glu Ile Lys Glu Lys Lys Pro Thr Ser Gln Gly Lys Ser Ser 890 Ser Lys Lys Glu Met Ser Lys Arg Asp Gly Lys Glu Lys Lys Asp Arg 905 Gly Val Thr Arg Phe Gln Glu Asn Ala Ser Glu Gly Lys Ala Pro Ala 915 920 : 925 Glu Asp Val Phe Lys Lys Pro Leu Pro Pro Thr Val Lys Lys Glu Glu 930 935 940 - 321 - 321 Ser Pro Pro Pro Pro Lys Val Val Asn Pro Leu IlerGly Leu Leu Gly 945 1 1945 950 1955 Ling Lating Co. Later 960 965 970 Thr Pro Pro Pro Gln Pro Arg Thr Ala Gln Pro Gln Lys Arg Glu Glu 980 985 Gln Thr Lys Lys Glu Asn Glu Glu Asp Lys Leu Thr Asp Trp Asn Lys 995 1000 1005 Leu Ala Cys Leu Leu Cys Arg Arg Gln Phe Pro Asn Lys Glu Val Leu 1015 1020 Ile Lys His Gln Gln Leu Ser Asp Leu His Lys Gln Asn Leu Glu Ile 1030 1035 His Arg Lys Ile Lys Gln Ser Glu Gln Glu Leu Ala Tyr Leu Glu Arg 1045 1050 Arg Glu Arg Glu Gly Lys Phe Lys Gly Arg Gly Asn Asp Arg Arg Glu 1065 Lys Leu Gln Ser Phe Asp Ser Pro Glu Arg Lys Arg Ile Lys Tyr Ser 1075 1080 Arg Glu Thr Asp Ser Asp Arg Lys Leu Val Asp Lys Glu Asp Ile Asp 1095 1100 Thr Ser Ser Lys Gly Gly Cys Val Gln Gln Ala Thr Gly Trp Arg Lys 1110 1115 Gly Thr Gly Leu Gly Tyr Gly His Pro Gly Leu Ala Ser Ser Glu Glu 1125 1130 Ala Glu Gly Arg Met Arg Gly Pro Ser Val Gly Ala Ser Gly Arg Thr

すすひ ンノノひてんひつ

1140 1145 1150

え しょ! シレノリ スマリ ! ノ

2520

2580

Ser Lys Arg Gln Ser Asn Glu Thr Tyr Arg Asp Ala Val Arg Arg Val

1155 1160 1

Met Phe Ala Arg Tyr Lys Glu Leu Asp 1170 1175

> <210> 711 <211> 4060 <212> DNA

<213> Homo Sapiens

#### <400> 711 ctgaaggcag cggcgcgcg cctttgtggt agcagtggcc ccgcgcggag gaagttccgg 60 tgtccgcggc gctaggtcgg tggcggaggc tgaggagaag gaggagcggg ccgtggaggc 120 ttcgccgcct aggtactgct ataaccagaa tttggtataa aaaggattta cttgttgggg 180 ccctcttgat aaaaagagat gtggggggat tctcgacctg ctaacagaac tggacctttt 240 eggactgggt gaaagetttt tetgeageag teatgttaaa aacettgtgt tgacttteet 300 cgtgttctga aactaacaga actggacctt ttcggactgg gtgaaagctt tttctgcagc 360 agtcatgttg aaaaccttgt gttgactttc ttcgtgttct gaaatgggag cataaaagtt 420 tactccgcca nttcgtctta aaatagcaaa actttgctgt tttctgcaga tctaggacct 480 tgttacagaa ctctgccaaa aaaaaaatgt ttacagaaga atgtgctgtg attagagaag 540 aatatgetgg tgtgtagatt teaaaetete tggacaatat gaataacaet gtetttgttt 600 ctacagtggg agccaagaag aaaggtttgc tcccgggtgg aacagggatt atcctcctcc 660... teccettaag agteatgete aagagagaea etetggeaae ttteetggea gagatteaet 720 tccctttgat ttccaggggc attcggggcc tccttttgca aatgtagagg agcattcttt 780 840 tgatttcagg gggggagatt tttcgtcttc tgatttccag agcagagatt catcacagtt 900 ggacttcagg ggtagggaca tacattctgg ggattttcgg gatagagaag gaccacctat mg /ag/ At /nggactatagg ggtggagatg gtacttctat ggattataga ggtagggagg cacctcatat 編集.1020 Fig. 1 1 1 gaactacaga gacagggatg ctcacgctgt tgacttcaga ggtagggatg ctcctccatc 44441080 spendario tgaetteagg ggeegggea ettatgattt agattttaga ggeegggatg gateeeatge 1991140 which had agattttagg ggaagggatt tatcagattt ggattttagg gccagagaac agtcccgttc 4441200 the control to the transfer of the control of the c agactttaga ggccgaggtt caggtactac tgatctagac tttagggaca gggatacgcc 1320 acattcagat ttcagaggta gacaccgatc taggactgat caggatttta ggggcagaga 20021380 gatgggatct tgtatggaat ttaaagatag ggagatgccc cctgtggatc caaatatttt 1440 ggattacatt cagccctcta cacaagatag agaacattct ggtatgaatg tgaacaggag 1500 agaagaatcc acacacgacc atacgataga aaggcctgct tttggcattc agaagggaga 1560 atttgagcat tcagaaacaa gagaaggaga aacacaaggt gtagcctttg aacatgagtc 1620 tecageagae ttteagaaca gecaaagtee agtteaagae caagataagt caeagettte 1680 tggacgtgaa gagcagagtt cagatgctgg tctgtttaaa gaagaaggcg gtctggactt 1740 tettgggegg caagacaceg attacagaag catggagtae egtgatgtgg atcatagget 1800 gccaggaagc cagatgtttg gctatggcca gagcaagtct tttccagagg gcaaaactgc 1860 ccgagatgcc caacgggacc ttcaggatca agattatagg accggcccaa gtgaggagaa 1920 acccagcagg cttattcgat taagtggggt acctgaagat gccacaaaag aagagattct 1980 taatgetttt eggaeteetg atggeatgee tgtaaagaae ttgeagttga aggagtataa 2040 cacaggttac gactatggct atgtctgcgt ggagttttca ctcttggaag atgccatcgg 2100 atgcatggag gccaaccagg gaactctaat gatccaggac aaagaagtta ccctggagta 2160 tgtatcaagc ctggattttt ggtactgcaa acgatgtaag gcaaacattg gtgggcaccg 2220 atcttcctgt tcattctgca agaacccaag agaagtgaca gaggccaagc aagaattaat 2280 aacctaccct cagcctcaga aaacatccat accagcacca ttggaaaaac agcccaacca 2340 gecectaaga ccagetgata aggaacetga acceaggaag agggaagaag gecaagagte 2400 acgettagga catcaaaaga gagaagcaga aaggtatetg ceteettete gaagggaagg 2460

gccaactttc cgaagagacc gagagaggga gtcatggtct ggagagacac gccaggatgg

agagagcaaa actatcatgc taaagcgtat ctatcgttcc acaccacctg aggtgatagt

すて ピーノンパンマルリン ggaagtgctg gagccctatg tccgccttac tactgccaac gtccgtatca tcaagaacag 2640 aacaggccct atggggcata cctatggctt tattgacctc gactcccatg tggaagctct 2700 tcgtgtggtg aagatcttac agaaccttga tccgccattt agcattgatg ggaagatggt 2760 agetgtaaac etggeeactg gaaaacgaag aaatgattet ggggaccatt etgaccacat 2820 gcattactat cagggtaaaa aatatttccg agataggagg ggaggtggca gaaattcaga 2880 ctggtcttca gatacaaatc gacaaggaca acagtcatca tctgactgct acatatatga 2940 ttctgctagt ggctactatt atgacccctt ggcaggaact tattatgacc ccaataccca 3000 gcaagaagtc tatgtgcccc aggatcctgg attacctgag gaagaagaga tcaaggaaaa 3060 aaaacccacc agtcaaggaa agtcaagtag caagaaggaa atgtctaaaa gagatggcaa 3120 ggagaaaaaa gacagaggag tgacgaggtt tcaggaaaat gccagtgaag ggaaggcccc ~ 3180 tgcagaagac gtctttaaga agcccctgcc tcctactgtg aagaaggaag agagtcccc 3240 tccacctaaa gtggtaaacc cactgatcgg cctcttgggt gaatatggag gagacagtga 3300 ctatgaggag gaagaagagg aggaacagac ccctccccca cagccccgca cagcacagcc 3360 ccagaagcga gaggagcaaa ccaagaagga gaatgaagaa gacaaactca ctgactggaa 3420 taaactggct tgtctgcttt gcagaaggca gtttcccaat aaagaagttc tgatcaaaca 3480 ccagcagctg tcagacctgc acaagcaaaa cctggaaatc caccggaaga taaaacagtc 3540 tgagcaggag ctagcctatc tggaaaggag agaacgagag ggaaagttta aaggaagagg 3600 aaatgatege agggaaaage teeagtettt tgaeteteea gaaaggaaac ggattaagta 3660 ctccagggaa actgacagtg atcgtaaact tgttgataaa gaagatatcg acactagcag 3720 caaaggaggc tgtgtccaac aggctactgg ctggaggaaa gggacaggcc tgggatatgg 3780 ccatcctgga ttggcttcat cagaggaggc tgaaggccgg atgagggcc ccagtgttgg 3840 agecteagga agaaccagca aaagacagte caacgagact tategagatg etgttegaag 3900 agtcatgttt gctcgatata aagaactcga ttaagaaagg agacaagttc catgggatac 3960 aacctccctc ttgttttgtt tgtctctcct tttcttttgt tactgttctt gctgctagaa 4020 cttttttaaa taaacttttt ttcaatgtga ttaaaaaaaa 4060 <210> 712 <211> 3736 : <212> DNA 一年中国民政党集团 关于"6000"。这点。 10 < 213 > Homo Sapiens THE PROPERTY OF THE PARTY (1987年) 2012 (1986年) 1987年 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - 19874 - ~~<400> 712 for the committee of th 43341 aaggaggage gggeegtgga ggettegeeg eetaggtaet getataacea gaatttggta .....6.Q gaaaaaggat ttacttgttg gggccctctt gataaaaaga gatgtggggg gattctcgac 120 ctgctaacag aactggacct tttcgatcta ggaccttgtt acagaactct gccaaaaaaa :180-240

6.1.3.3

aaatgtttac agaagaatgt gctgtgatta gagaagaata tgctggtgtg tagatttcaa actetntgga caatatgaat aacaetgtet ttgtttetae agtgggagee aagaagaaag 300 gtttgctccc gggtggaaca gggattatcc tcctcctccc cttaagagtc atgctcaaga 360 gagacactct ggcaacttte ctggcagaga ttcactteec tttgatttec aggggcatte 420 ggggcctcct tttgcaaatg tagaggagca ttctttcagc tatggagcta gagacggacc 480 gcatggtgac tatcgaggag gggagggacc tggacatgat ttcagggggg gagattttc 540 gtcttctgat ttccagagca gagattcatc acagttggac ttcaggggta gggacataca 600 ttctggggat tttcgggata gagaaggacc acctatggac tataggggtg gagatggtac 660 ttctatggat tatagaggta gggaggcacc tcatatgaac tacagagaca gggatgctca 720 cgctgttgac ttcagaggta gggatgctcc tccatctgac ttcaggggcc ggggcactta 780 tgatttagat tttagaggcc gggatggatc ccatgcagat tttaggggaa gggatttatc 840 agatttggat tttagggcca gagaacagtc ccgttctgat tttaggaata gagatgtatc 900 tgatttggac tttagagaca aagacggaac acaagtagac tttagaggcc gaggttcagg 960 tactactgat ctagacttta gggacaggga tacgccacat tcagatttca gaggtagaca 1020 ccgatctagg actgatcagg attttagggg cagagagatg ggatcttgta tggaatttaa 1080 agatagggag atgccccctg tggatccaaa tattttggat tacattcagc cctctacaca 1140 agatagagaa cattctggta tgaatgtgaa caggagagaa gaatccacac acgaccatac 1200 gatagaaagg cctgcttttg gcattcagaa gggagaattt gagcattcag aaacaagaga 1260 aggagaaaca caaggtgtag cctttgaaca tgagtctcca gcagactttc agaacagcca 1320 aagtecagtt caagaccaag ataagteaca getttetgga egtgaagage agagtteaga 1380

```
tgctggtctg tttaaagaag aaggcggtct ggactttctt gggcggcaag acaccgatta
                                                                    1440
cagaagcatg gagtaccgtg atgtggatca taggctgcca ggaagccaga tgtttggcta
                                                                    1500
tggccagagc aagtetttte cagagggcaa aactgcccga gatgcccaac gggacettca
                                                                    1560
ggatcaagat tataggaccg gcccaagtga ggagaaaccc agcaggctta ttcgattaag
                                                                    1620
tggggtacct gaagatgcca caaaagaaga gattcttaat gcttttcgga ctcctgatgg
                                                                    1680
catgcctgta aagaacttgc agttgaagga gtataacaca ggttacgact atggctatgt
                                                                    1740
ctgcgtggag ttttcactct tggaagatgc catcggatgc atggaggcca accagggaac
                                                                    1800
totaatgato caggacaaag aagttaccot ggagtatgta toaagcotgg atttttggta
                                                                    1860
ctgcaaacga tgtaaggcaa acattggtgg gcaccgatct tcctgttcat tctgcaagaa
                                                                    1920
cccaagagaa gtgacagagg ccaagcaaga attaataacc taccctcagc ctcagaaaac
                                                                    1980
atccatacca gcaccattgg aaaaacagcc caaccagccc ctaagaccag ctgataagga
                                                                    2040
acctgaaccc aggaagaggg aagaaggcca agagtcacgc ttaggacatc aaaagagaga
                                                                    2100
agcagaaagg tatctgcctc cttctcgaag ggaagggcca actttccgaa gagaccgaga
                                                                    2160
gagggagtca tggtctggag agacacgcca ggatggagag agcaaaacta tcatgctaaa
                                                                    2220
gegtatetat egitecacae cacetgaggit gatagiggaa gigetggage ectatgiceg
                                                                    2280
2340
tggctttatt gacctcgact cccatgtgga agctcttcgt gtggtgaaga tcttacagaa
                                                                    2400
ccttgatccg ccatttagca ttgatgggaa gatggtagct gtaaacctgg ccactggaaa
                                                                    2460
                                                                    2520
acgaagaaat gattetgggg accattetga ceacatgeat taetateagg gtaaaaaata
tttccgagat aggagggag gtggcagaaa ttcagactgg tcttcagata caaatcgaca
                                                                    2580
aggacaacag tcatcatctg actgctacat atatgattct gctagtggct actattatga
                                                                    2640
ccccttggca ggaacttatt atgaccccaa tacccagcaa gaagtctatg tgccccagga
                                                                    2700
tectggatta cetgaggaag aagagateaa ggaaaaaaaa eecaceagte aaggaaagte
                                                                    2760
                                                                     2820
aagtagcaag aaggaaatgt ctaaaagaga tggcaaggag aaaaaaagaca gaggagtgac
                                                                     2880
qaqqtttcaq qaaaatgcca gtgaagggaa ggcccctgca gaagacgtct ttaagaagcc
cctgcctcct actgtgaaga aggaagagag tccccctcca cctaaagtgg taaacccact
                                                                     2940
gatcggcctc ttgggtgaat atggaggaga cagtgactat gaggaggaag aagaggagga
                                                                     3000
acagacccet cececacage ecegeacage acageeccag aagegagagg ageaaaccaa
                                                                     3060
gaaggagaat gaagaagaca aactcactga ctggaataaa ctggcttgtc tgctttgcag
                                                                     3120
aaggcagttt cccaataaag aagttotgat caaacaccag cagotgtoag acctgcacaa
                                                                     3180
                                                                     3240
qcaaaacctg gaaatccacc ggaagataaa acagtctgag caggagctag cctatctgga
 aaggagagaa cgagagggaa agtttaaagg aagaggaaat gatcgcaggg aaaagctcca
                                                                     3300
 gtottttgac totocagaaa ggaaacggat taagtactcc agggaaactg acagtgatcg
                                                                     3360
 taaacttgtt gataaagaag atatcgacac tagcagcaaa ggaggctgtg tccaacaggc
                                                                     3420
 tactggctgg aggaaaggga caggcctggg atatggccat cctggattgg cttcatcaga
                                                                     3480
 ggaggotgaa ggooggatga ggggooccag tgttggagoo tcaggaagaa ccagcaaaag
                                                                     3540
 acagtecaac gagacttate gagatgetgt tegaagagte atgtttgete gatataaaga
                                                                     3600
 actogattaa gaaaggagac aagttocatg ggatacaacc tocotottgt tttgtttgtc
                                                                     3660
 totootttto ttttgttact gttcttgctg ctagaacttt tttaaataaa cttttttca
                                                                     3720
                                                                     3736
 atgtgattaa aaaaaa
```

LUXIUDJUIATUI -

```
<210> 713
<211> 10
<212> PRT
<213> Homo Sapiens
```

<400> 713
Asn Val Glu Glu Xaa His Ser Phe Ser Tyr
1 5 10

<210> 714 <211> 10 <212> PRT <213> Homo Sapiens

```
<400> 714
                              Pro Val Asp Pro Xaa Asn Ile Leu Asp Tyr
                                                                 <210> 715
                                                                 <211> 10
                                                                 <212> PRT
                                                                 <213> Homo Sapiens
                                                                  <400> 715
                              Asp Thr Asp Tyr Xaa Arg Ser Met Glu Tyr
                                                                <210> 716
                                                                <211> 10
                                                                <212> PRT
                                                               <213> Homo Sapiens
                                                               <400> 716
                             Ser Leu Leu Glu Xaa Asp Ala Ile Gly Cys
                                                                                                                            5
                                                               <210> 717
                                                               <211> 10
                                                               <212> PRT
                                                               <213> Homo Sapiens
                             <400> 717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ~ g 3
    ThroLeu Metalle Xaa Gln Asp Lys Glu Val
                                                                                                                                                                                                                                                                                                                                                                                                  of the second of
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
                                                                                                                                                                                                       . 10
                                                                                                                                                                                                                                                                                                                                                                                                  The state of the state of the state of the
  1. 10.00 建镍铁铁铁矿工程。
                                                                                                                                                            1111
                                                                                                                                                                                                                                                                                                                                                                                                      AND THE STREET OF STREET
  and egetto <210 > 718
                                                                                                                                                                                                                                                                                                                                                                                                      and the constituence of the
Some Section
                                                                                                                                                                                                                                                                                                                                                                                                   Charles in the company of the following
     . <212> PRT
          <213> Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                  <400> 718
                            Tyr Val Ser Ser Leu Asp Phe Trp Tyr Cys
                                                                                                                                                                                                                                                10
                                                              <210> 719
                                                              <211> 10
                                                              <212> PRT
                                                             <213> Homo Sapiens
                                                              <400> 719
                           Val Ile Val Glu Val Leu Glu Pro Tyr Val
                                                                                                                              5
                                                                                                                                                                                                                                               10
                                                              <210> 720
                                                              <211> 10
                                                             <212> PRT
                                                             <213> Homo Sapiens
```

*** /// ///

<400> 720

```
Lys Leu Thr Asp Xaa Trp Asn Lys Leu Ala
                                    <210> 721
                                    <211> 10
                                    <212> PRT
                                     <213> Homo Sapiens
                                     <400> 721
  Gln Leu Ser Asp Leu His Lys Gln Asn Leu
                                                                                                      5
                                     <210> 722
                                     <211> 10
                                     <212> PRT
                                     <213> Homo Sapiens
                                     <400> 722
   Lys Gln Ser Glu Gln Glu Leu Ala Tyr Leu
                                       <210> 723
                                       <211> 10
                                       <212> PRT
                                       <213> Homo Sapiens
                                      <400> 723
     Lys Leu Val Asp Lys Glu Asp Ile Asp Thr
         1 ... 5
                                                                                                                                           Control of the Contro
           Sec. 52.25
                                                                                                                                                                                                                               ··· <210> 724
                                                                                                                                                                                                                          1967年 - 1968年                1.15 (1.15) $Ap$A$E$P$(是1955)
                  <212> PRT
                                   <213> Homo Sapiens
                                          <400> 724
       Val Met Phe Ala Xaa Arg Tyr Lys Glu Leu
                                           <210> 725
                                           <211> 10
                                           <212> PRT
                                            <213> Homo Sapiens
                                           <400> 725
          Gln Met Phe Gly Xaa Tyr Gly Gln Ser Lys
                                             <210> 726
                                              <211> 10
                                              <212> PRT
                                              <213> Homo Sapiens
                                               <400> 726
            Gly Met Pro Val Lys Asn Leu Gln Leu Lys
```

***********

```
すりし フンパリエレン
```

```
10
     <210> 727
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 727
Gly Leu Pro Glu Xaa Glu Glu Glu Ile Lys
              5
     <210> 728
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 728
Leu Leu Cys Arg Arg Gln Phe Pro Asn Lys
        5
     <210> 729
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 729
Glu Tyr Arg Asp Xaa Val Asp His Arg Leu
               5
                                 10
    <210> 730
     <211> 10
<212> PRT
   <213> Homo Sapiens
     <400> 730
Gly Tyr Val Cys Xaa Val Glu Phe Ser Leu
        5
     <210> 731
     <211> 10
   <212> PRT
     <213> Homo Sapiens
     <400> 731 .
Asp Tyr Gly Tyr Xaa Val Cys Val Glu Phe
               5
     <210> 732
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 732
Trp Tyr Cys Lys Arg Cys Lys Ala Asn Ile
```

エレム( ひひとひにエマひ ( )

```
<210> 733
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 733
Thr Tyr Pro Gln Pro Gln Lys Thr Ser Ile
     <210> 734
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 734
Ile Tyr Arg Ser Thr Pro Pro Glu Val Ile
       5
     <210> 735
     <211> 10
     <212> PRT
      <213> Homo Sapiens
     <400> 735
His Tyr Tyr Gln Xaa Gly Lys Lys Tyr Phe
      <210> 736
      <211> 10
      <211> 10 <212> PRT
      <213> Homo Sapiens
      <400> 736
Val Tyr Val Pro Xaa Gln Asp Pro Gly Leu
               5
      <210> 737
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 737
Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu
                                 10
               5
      <210> 738
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 738
 Met Pro Pro Val Xaa Asp Pro Asn Ile Leu
```

**********

<210> 739

1

10

```
<211> 10
     <212> PRT
   <213> Homo Sapiens
     <400> 739
Thr Ala Arg Asp Xaa Ala Gln Arg Asp Leu
     5 10
     <210> 740
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 740
Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu
               5
     <210> 741
     <211> 10
     <212> PRT
     <213> Homo Sapiens
 <400> 741
Thr Pro Pro Glu Val Ile Val Glu Val Leu
              5
     <210> 742
     <211> 10
   <212> PRT
  <213> Homo Sapiens
 : <400> 742
                                                                1.5
Arg Val Met Phe Ala Arg Tyr Lys Glu Leu
            5 10
 1 .
     <210> 743
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 743
Arg Glu Met Gly Xaa Ser Cys Met Glu Phe
     <210> 744
     <211> 10
      <212> PRT
      <213> Homo Sapiens
     <400> 744
 Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe
                                10
     <210> 745
      <211> 10
```

***********

```
<212> PRT
     <213> Homo Sapiens
     <400> 745
Lys Glu Tyr Asn Xaa Thr Gly Tyr Asp Tyr
               5
      <210> 746
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 746
Thr Glu Ala Lys Gln Glu Leu Ile Thr Tyr
      <210> 747
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 747
Val Glu Ala Leu Arg Val Val Lys Ile Leu
      <210> 748
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 748
Gly Glu Tyr Gly Xaa Gly Asp Ser Asp Tyr
            5
                                    10
      <210> 749
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 749
Leu Glu Arg Arg Glu Arg Glu Gly Lys Phe
                 5
                                    10
       <210> 750
       <211> 10
       <212> PRT
       <213> Homo Sapiens
       <400> 750
 Arg Gln Asp Gly Glu Ser Lys Thr Ile Met
                 5
                                    10
  1
      <210> 751
       <211> 10
```

<212> PRT

_ _ _ , _ _ , _ , _ . . . . .

**** /// *****

```
<213> Homo Sapiens
```

<400> 751

Thr Pro Pro Glu Val Ile Val Glu Val Leu 5

<210> 752

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 752

Tyr Gly Phe Ile Asp Leu Asp Ser His Val 5

<210> 753

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 753

Arg Gln Phe Pro Xaa Asn Lys Glu Val Leu

<210> 754

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 754

Asn Val Glu Glu Xaa His Ser Phe Ser Tyr 5 ... 10

<210> 755

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 755

Pro Val Asp Pro Xaa Asn Ile Leu Asp Tyr 1 5

<210> 756

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 756

Asp Thr Asp Tyr Xaa Arg Ser Met Glu Tyr 1

<210> 757

<211> 10

<212> PRT

<213> Homo Sapiens

THE PROPERTY.

```
<400> 757
Trp Gln Ser Ala Xaa Arg Phe Tyr Tyr Leu
     <210> 758
     <211> 10
     <212> PRT
     <213> Homo Sapiens.
     <400> 758
Ser Leu Leu Glu Xaa Asp Ala Ile Gly Cys
        5
     <210> 759
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 759
Thr Leu Met Ile Xaa Gln Asp Lys Glu Val
     <210> 760
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 760
Tyr Val Ser Ser Leu Asp Phe Trp Tyr Cys
      5 10
      <210> 761
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 761
 Val Ile Val Glu Val Leu Glu Pro Tyr Val
      5
                                 10
      <210> 762
      <211> 10
     <212> PRT
      <213> Homo Sapiens
       <400> 762
 Lys Leu Thr Asp Xaa Trp Asn Lys Leu Ala
```

<210> 763
<211> 10
<212> PRT
<213> Homo Sapiens

<400> 763

```
TT C フノ/ロマルロン
Gln Leu Ser Asp Leu His Lys Gln Asn Leu
                5
     <210> 764
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 764
Lys Gln Ser Glu Gln Glu Leu Ala Tyr Leu
                                   10
     <210> 765
     <211> 10
      <212> PRT
     <213> Homo Sapiens
     <400> 765
Lys Leu Val Asp Lys Glu Asp Ile Asp Thr
1
       · 5
     <210> 766
     <211> 10
     <212> PRT
     <213> Homo Sapiens
      <400> 766
Val Met Phe Ala Xaa Arg Tyr Lys Glu Leu
     <210> 767
      <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 767
Gln Met Phe Gly Xaa Tyr Gly Gln Ser Lys
      <210> 768
      <211> 10
      <212> PRT
      <213> Homo Sapiens
     <400> 768
Gly Met Pro Val Lys Asn Leu Gln Leu Lys
 1
               5
                                    10
```

<210> 769 <211> 10 <212> PRT

<400> 769

<213> Homo Sapiens

Gly Leu Pro Glu Xaa Glu Glu Glu Ile Lys -391A WAI DUJULATULJ

10 <211> 10

> <212> PRT <213> Homo Sapiens

<400> 775 Asp Tyr Gly Tyr Xaa Val Cys Val Glu Phe 5

• ... • .

12100

8 X.1 %

1.1

```
<210> 776
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 776
Trp Tyr Cys Lys Arg Cys Lys Ala Asn Ile
      <210> 777
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 777
Thr Tyr Pro Gln Pro Gln Lys Thr Ser Ile
      <210> 778
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 778
Ile Tyr Arg Ser Thr Pro Pro Glu Val Ile
                 5
      <210> 779
      <211> 10
    <212> PRT
      <213> Homo Sapiens
      <400> 779
His Tyr Tyr Gln Xaa Gly Lys Lys Tyr Phe
                5
      <210> 780
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 780
Val Tyr Val Pro Xaa Gln Asp Pro Gly Leu
                                     10
       <210> 781
       <211> 10
       <212> PRT
       <213> Homo Sapiens
       <400> 781
 Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu
                  5
```

* ~ * 1 ~ ~ ~ ~ . . .

77 W 221W44WJ

-393-

<210> 782

```
<211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 782
Met Pro Pro Val Xaa Asp Pro Asn Ile Leu
      <210> 783
     <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 783
Thr Ala Arg Asp Xaa Ala Gln Arg Asp Leu
                5
                                   10
      <210> 784.
      <211> 10
      <212> PRT
      <213> Homo Sapiens
   <400> 784
Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu
      <210> 785
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 785
Thr Pro Pro Glu Val Ile Val Glu Val Leu
                 5
                                    10
      <210> 786
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400>, 786
Arg Val Met Phe Ala Arg Tyr Lys Glu Leu
      <210> 787
      <211> 10
      <212> PRT
       <213> Homo Sapiens
      <400> 787
 Ser Glu Ala Trp Ser Ser Asn Glu Lys Phe
       <210> 788
```

<211> 10

-394-

```
<212> PRT
     <213> Homo Sapiens
     <400> 788
Arg Glu Met Gly Xaa Ser Cys Met Glu Phe
          5
     <210> 789
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 789
Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe
               5
     <210> 790
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 790
Lys Glu Tyr Asn Xaa Thr Gly Tyr Asp Tyr
         5
                                  10
     <210> 791
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 791
Thr Glu Ala Lys Gln Glu Leu Ile Thr Tyr
 1 . . . . .
               5
     <210> 792
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 792
Val Glu Ala Leu Arg Val Val Lys Ile Leu
1
               5
   <210> 793
     <211> 10
     <212> PRT
     <213> Homo Sapiens
     <400> 793
Gly Glu Tyr Gly Xaa Gly Asp Ser Asp Tyr
               5
                                  10
     <210> 794
     <211> 10
     <212> PRT
```

44 M 221007011 20170

```
<213> Homo Sapiens
      <400> 794
Leu Glu Arg Arg Glu Arg Glu Gly Lys Phe
                 5
      <210> 795
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 795
Arg Gln Asp Gly Glu Ser Lys Thr Ile Met
                 5
      <210> 796
      <211> 10
      <212> PRT
      <213> Homo Sapiens
      <400> 796
Thr Pro Pro Glu Val Ile Val Glu Val Leu
                                     10
                  5
       <210> 797
       <211> 10
       <212> PRT
       <213> Homo Sapiens
       <400> 797
 Tyr Gly Phe Ile Asp Leu Asp Ser His Val
                                     10
                  5
  1
       <210> 798
       <211> 10
       <212> PRT
       <213> Homo Sapiens
       <400> 798
 Arg Gln Phe Pro Xaa Asn Lys Glu Val Leu
  1
       <210> 799
       <211> 1464
       <212> DNA
       <213> Homo Sapiens
       <400> 799
 agtaccgggt acgcaggggt gcctcaacca cactccgtcc acggactctc cgttatttta
                                                                          60
 ggaggtccct ggccaaagat ttatttctct tgacaaccaa gggcctccgt ctggatttcc
                                                                         120
 aaqqaaqaat ttcctctgaa gcaccggaac ttgctactac cagcaccatg ccctaccaat
                                                                         180
```

agtaccgggt acgcaggggt gcctcaacca cactccgtcc acggactctc cgttatttta 60 ggaggtccct ggccaaagat ttatttctct tgacaaccaa gggcctccgt ctggatttcc 120 aaggaagaat ttcctctgaa gcaccggaac ttgctactac cagcaccatg ccctaccaat 180 atccagcact gaccccggag cagaagaagg agctgtctga catcgctcac cgcatcgtgg 240 cacctggcaa gggcatcctg gctgcagatg agtccactgg gagcattgcc aagcggctgc 300 agtccattgg caccgagaac accgaggaga accggcgctt ctaccgccag ctgctgctga 360 cagctgacga ccgcgtgaac ccctgcattg ggggtgtcat cctcttccat gagacactct 420

```
accagaagge ggatgatggg egtecettee eccaagttat caaatecaag ggeggtgttg
                                                                      480
tgggcatcaa ggtagacaag ggcgtggtcc ccctggcagg gacaaatggc gagactacca
                                                                      540
cccaagggtt ggatgggctg tctgagcgct gtgcccagta caagaaggac ggagctgact
                                                                      600
tegecaagtg gegttgtgtg etgaagattg gggaacacae ecceteagee etegecatea
                                                                      660
tggaaaatgc caatgttctg gcccgttatg ccagtatctg ccagcagaat ggcattgtgc
                                                                      720
ccatcgtgga gcctgagatc ctccctgatg gggaccatga cttgaagcgc tgccagtatg
                                                                      780
tgaccgagaa ggtgctggct gctgtctaca aggctctgag tgaccaccac atctacctgg 840.
aaggcacett getgaageee aacatggtea eeccaggeea tgettgeaet cagaagtttt
                                                                      900
ctcatgagga gattgccatg gcgaccgtca cagcgctgcg ccgcacagtg ccccccgctg
                                                                      960
teactgggat cacetteetg tetggaggee agagtgagga ggaggegtee atcaacetea
                                                                     1020
atgecattaa caagtgeeee etgetgaage eetgggeeet gaeettetee taeggeegag
                                                                     1080
ccctgcaggc ctctgccctg aaggcctggg gcgggaagaa ggagaacctg aaggctgcgc
                                                                     1140
aggaggagta tgtcaagcga gccctggcca acagccttgc ctgtcaagga aagtacactc
                                                                     1200
cgagcggtca ggctggggct gctgccagcg agtccctctt cgtctctaac cacgcctatt
                                                                     1260
aageggaggt gtteeeagge tgeeeceaae aacteeagge cetgeeecet eccaetettg
                                                                     1320
aagaggagge egecteeteg gggeteeagg etggettgee egegetettt etteeetegt
                                                                     1380
gacagtggtg tgtggtgtcg tctgtgaatg ctaagtccat caccetttcc ggcacactge
                                                                     1440
caaataaaca gctatttaag gggg
                                                                     1464
```

<210> 800

<211> 364

<212> PRT

<213> Homo Sapiens

<400> 800

Met Pro Tyr Gln Tyr Pro Ala Leu Thr Pro Glu Gln Lys Lys Glu Leu 1 5 10 Ser Asp Ile Ala His Arg Ile Val Ala Pro Gly Lys Gly Ile Leu Ala 25 Ala Asp Glu Ser Thr Gly Ser Ile Ala Lys Arg Leu Gln Ser Ile Gly 40 -Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg Gln Leu Leu 55. 60 Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Gly Val Ile Leu Phe 70 75 His Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln 85 90 Val Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly 105 Val Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu Asp Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp 135 140 Phe Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser 150 155 Ala Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser 165 170 Ile Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu 185 Pro Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys 200 Val Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu 215 Glu Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys 225 230 235

```
Thr Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr Ala
                            245
 Leu Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe Leu Ser
                                                       265
 Gly Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn Ala Ile Asn
                                                 280
               275
 Lys Cys Pro Leu Leu Lys Pro Trp Ala Leu Thr Phe Ser Tyr Gly Arg
                                                                            300
                                          295
        290
 Ala Leu Gln Ala Ser Ala Leu Lys Ala Trp Gly Gly Lys Lys Glu Asn
                                                                     315
                                                                                                        320
                                   310
 Leu Lys Ala Ala Gln Glu Glu Tyr Val Lys Arg Ala Leu Ala Asn Ser
                                                               330
 Leu Ala Cys Gln Gly Lys Tyr Thr Pro Ser Gly Gln Ala Gly Ala Ala
                                                        345
                      340
 Ala Ser Glu Ser Leu Phe Val Ser Asn His Ala Tyr
                                                 360
               355
            <210> 801
            <211> 3504
            <212> DNA
            <213> Homo Sapiens
            <400> 801
  ctctgctttt ctctttcaga gctgttgcgc agccattggt acctgtattg gggaaacata
                                                                                                                           60
  gcatacaagc aagaagctta cagcctcagt ggcgaaaaat ttttcatgtc agagaccgag
                                                                                                                         120
  aactottgca gtcgtttatg tcatcccttc ttctccagac agaagatacc aaaaagttgc
                                                                                                                         180
  aatcaaagat ctgttcatct tattgataaa gtcactaata agccaaaatg tctgtcaacg
                                                                                                                         240
  tcaaccgcag cgtgtcagac cagttctatc gctacaagat gccccgtttg attgctaagg
                                                                                                                         300:
  ttgagggcaa aggaaatgga atcaagacag ttatagtcaa catggttgac gttgcaaagg
                                                                                                                     3,60 ; 10
conceptualtic granted according to the second control of the contr
   cccagtttga tgttaagaat gaccgttaca ttgtcaatgg atctcatgag gcgaataagc
                                                                                                                      480
 tgcaagacat gttggatgga ttcattaaaa aatttgttct ctgtcctgag tgtgagaatc au54000
   ctgaaacaga totgcatgto aatocaaaga agcaaacaat aggtaattot tgtaaagcot 🚊 🚉 600 🖦
   gtgggtaccg aggcatgctt gacacacatc ataaactctg tacattcatt ctcaaaaacc
                                                                                                                    660
   .720° . •
   gcaaggacaa ggaaaatggc tetgtateca eeagtgagae accaecaect ecaecaecaa
                                                                                                                          780
   atgaaattag tootocacat gotgtggaag aagaggaaga tgatgattgg ggggaggata
                                                                                                                          840
   caactgagga agctcaaagg cgcagaatgg atgaaatcag tgaccatgca aaaggtctga
                                                                                                                          900
   cacttagcga tgatttggaa agaactgtag aagagcgtgt taacatcctg tttgattttg
                                                                                                                          960
   ttaagaaaaa gaaagaagag ggcattattg attcatctga taaagacatt gtggctgagg
                                                                                                                         1020
   cagaaagact ggatgtaaaa gccatgggcc ctctcgtttt gacagaagtt ctctttgatg
                                                                                                                         1080
   agaagataag agagcaaatc aagaaataca ggcgccattt titaagattt tgtcataaca
                                                                                                                         1140
   acaaaaaggc ccagcggtac cttcttcatg gtttggaatg tgtggtagca atgcatcaag
                                                                                                                         1200
    ctcagttgat ctccaagatt ccacatatct tgaaggagat gtatgatgca gaccttttag
                                                                                                                         1260
    aggaagaggt cattatcagc tggtcagaaa aggcctctaa gaaatatgtc tcaaaagaac
                                                                                                                         1320
    ttgccaaaga gattcgtgtc aaagcagagc catttattaa atggttgaag gaagcggagg
                                                                                                                         1380
    aggaatette tggtggtgag gaagaagaeg aagatgaaaa tattgaggtg gtatattega
                                                                                                                         1440
    agactgccag tgtaccaaaa gttgaaactg tgaagtctga caacaaggat gacgacattg
                                                                                                                         1500
    atattgatgc catttaaaag gatggatgca acttagctta acagtgtaat gctgcaaatt
                                                                                                                         1560
    tttctccatt atcaqccaga agtgcaacat gtatgtgcaa gagctaaagt ggcttaacat
                                                                                                                         1620
    catgctacac ttgatactaa aaagctatta ctgtgagtgg tctataatta agcccaatga
                                                                                                                          1680
    gacatctagg gagtccatac atatcagtga gcagttgtag tttgcttatt tatagcatgt
                                                                                                                          1740
    ttctttcgga aaaactagtg gtggacacat ttggatcaca tttatacagt tataaaaaaat
                                                                                                                          1800
```

***********

1860

1920

aaagatttga ttttggtcat tcttcagact ttgggctatg aatggcttat gctgaagtaa

ttggctactt ttaggatgtt acaccattta ataacttaga cttcttaagt ttggtagatt

```
gttaggtact gaagacttga agaatgcaaa caattataat gaccttactc agccattaag
                                                                     1980
aaatgaagta ttttgaaagt tgtgtctcca gtccattgag attggcaact gacaattett
                                                                      2040
gtcattctaa ggaaatttga tgatttaatg acagtgtgac atcctcatga gaagtaaaaa
                                                                      2100
tgacctgtgt gtcctatggt ttaagagcaa attttgaaac ttggagttgt ggtttttcag
                                                                      2160
tttgtgtaca ctcaccccaa attgtagtct attgagtcat gtgcattgca cgttggataa
                                                                      2220
gccagggaaa tgacaaataa gtattttgtg tgtatttagt ggttgctttg tactgagaga
                                                                      2280
aaagetttga ggtgtgatta aategtaaae tetgatteta tttgggagaa acaggaaaaa
                                                                     2340
ggtgcactta atctaaaaca gcataagttt tcaactttta cccttaaatt ataatttcaa
                                                                      2400
gatgtttaga catactgtat cttgtgtttg atgtgttccc cctccctaat attatggttt
                                                                      2460
attetttaat geettttaat tiggatataa tagetigtae titagattit ggitgetate
                                                                     2520
ttgccaaaat aagtgttact gtttttcaag cttgatcccc ttccctgatt gtcttattta
                                                                      2580
aagagaaagt taaactcata cttctgagtc agagcctgta ttttggttaa gacttgggat
                                                                      2640
attttttact tcacattgaa tatagctgga tacctgagaa gtctggtgat ggcactgggt
                                                                      2700
gggtgcagct agctaaggcc tgaccagccc attcagagcc ttggacttca gacacaaaag
                                                                      2760
tgagtttett acceaettge tggtgtaaac tetatetggg gteetgaeta tatttgaata
                                                                      2820
cttgtcttca atattaaaaa acatagcaca tttttctttc tacaaaagta cattctggag
                                                                      2880
ttaagaaccc atgtggttga tttgtgtgtg gcgtgctagc tcatacatta tttggatctt
                                                                      2940
attetttgtg teatecatet caeagattat aagaetttga ttaatgtaaa aagtatgegt
                                                                      3000
taaaatcata ccaaacattt ggtaaaatta aaaccttgat gggaggctgg gcgtggaaca
                                                                      3060
ggagccatat acctggaatg gtaacagggg aatgtgctat gtcacaccaa agaagtgqqa
                                                                      3120
cttggaaagt cacttgtctc ctgggtttca gactctttgt tgcatgggca gcccatccat
                                                                      3180
atgtcattac tttttgagat tctcaagtag atcagcacat ttcggcctca ggttggcaag
                                                                      3240
attttgtctt agagctgttg ctttaaaggg aaatggtcag gtcttagaca cttaggaagg
                                                                      3300
tcttgggctt ctgttcattc tggtgccaaa ccagtgggat tcaaatttca cacaatctgg
                                                                      3360
gtttttatte atggaggtta acctggtaag agtaateett catggeteta ttgaggtgte
                                                                      3420
ttaaaaagtt tcctgtttca aacagctaca ttacttgatt aaaacaatgt tataaaatta
                                                                      3480
aatttccccc tcctttcata ttaa
                                                                      3504
```

1.5 to 5 to 3

1.1953 - 2 1.1 2.13 3 L.

<210> 802

<211> 429

<212> PRT

<213> Homo Sapiens The Control of the Control

<400> 802

Met Ser Val Asn Val Asn Arg Ser Val Ser Asp Gln Phe Tyr Arg Tyr 10 Lys Met Pro Arg Leu Ile Ala Lys Val Glu Gly Lys Gly Asn Gly Ile 25 Lys Thr Val Ile Val Asn Met Val Asp Val Ala Lys Ala Leu Asn Arg 40 Pro Pro Thr Tyr Pro Thr Lys Tyr Phe Gly Cys Glu Leu Gly Ala Gln 55 Thr Gln Phe Asp Val Lys Asn Asp Arg Tyr Ile Val Asn Gly Ser His 70 75 Glu Ala Asn Lys Leu Gln Asp Met Leu Asp Gly Phe Ile Lys Lys Phe 90 85 Val Leu Cys Pro Glu Cys Glu Asn Pro Glu Thr Asp Leu His Val Asn 105 Pro Lys Lys Gln Thr Ile Gly Asn Ser Cys Lys Ala Cys Gly Tyr Arg 120 125 Gly Met Leu Asp Thr His His Lys Leu Cys Thr Phe Ile Leu Lys Asn 135 Pro Pro Glu Asn Ser Asp Ile Gly Thr Gly Lys Lys Glu Lys 150 155 Lys Asn Arg Lys Gly Lys Asp Lys Glu Asn Gly Ser Val Ser Thr Ser 1 011 0070117017

```
170
                 165
 Glu Thr Pro Pro Pro Pro Pro Asn Glu Ile Ser Pro Pro His Ala
                                 185
             180
 Val Glu Glu Glu Asp Asp Asp Trp Gly Glu Asp Thr Thr Glu Glu
                             200
 Ala Gln Arg Arg Arg Met Asp Glu Ile Ser Asp His Ala Lys Gly Leu
                         215
  Thr Leu Ser Asp Asp Leu Glu Arg Thr Val Glu Glu Arg Val Asn Ile
                                         235
                     230
                                                             240
  Leu Phe Asp Phe Val Lys Lys Lys Glu Glu Gly Ile Ile Asp Ser
                                     250
  Ser Asp Lys Asp Ile Val Ala Glu Ala Glu Arg Leu Asp Val Lys Ala
  Met Gly Pro Leu Val Leu Thr Glu Val Leu Phe Asp Glu Lys Ile Arg
          275
                              280
                                                 285
  Glu Gln Ile Lys Lys Tyr Arg Arg His Phe Leu Arg Phe Cys His Asn
                                             300
                          295
  Asn Lys Lys Ala Gln Arg Tyr Leu Leu His Gly Leu Glu Cys Val Val
                                         315
                      310
  Ala Met His Gln Ala Gln Leu Ile Ser Lys Ile Pro His Ile Leu Lys
                  325
                                      330
  Glu Met Tyr Asp Ala Asp Leu Leu Glu Glu Glu Val Ile Ile Ser Trp
                                  345
  Ser Glu Lys Ala Ser Lys Lys Tyr Val Ser Lys Glu Leu Ala Lys Glu
          355
                              360
  Ile Arg Val Lys Ala Glu Pro Phe Ile Lys Trp Leu Lys Glu Ala Glu
                                              380
  Glu Glu Ser Ser Gly Gly Glu Glu Glu Asp Glu Asp Glu Asn Ile Glu
                      390
                                        3951 Sig √ 3
 Val Val Tyr Ser Lys Thr Ala Ser Val Pro Lys Val Glu Thr Val Lys
                  405
                                      410
                                                          415
Ser Asp Asn Lys Asp Asp Ile Asp Ile Asp Aladile:
                                  425
              420
        <210> 803
        <211> 2251
        <212> DNA
        <213> Homo Sapiens
        <400> 803
   aggatgtett etggeaattt eatataagta tttttteaaa aatgtetett etgteaacee
                                                                         60
   cacquetttg quadaatgaa gtgggtaacc tttatttccc ttcttttct ctttagctcq
                                                                        120
   gcttattcca ggggtgtgtt tcgtcgagat gcacacaaga gtgaggttgc tcatcggttt
                                                                        180
   aaagatttgg gagaagaaaa tttcaaagcc ttggtgttga ttgcctttgc tcagtatctt
                                                                        240
   cagcagtgtc catttgaaga tcatgtaaaa ttagtgaatg aagtaactga atttgcaaaa
                                                                        300
   acatgtgtag ctgatgagtc agctgaaaat tgtgacaaat cacttcatac ccttttttgga
                                                                        360
   gacaaattat gcacagttgc aactettegt gaaacetatg gtgaaatgge tgactgetgt
                                                                        420
   gcaaaacaag aacctgagag aaatgaatgc ttcttgcaac acaaagatga caacccaaac
                                                                        480
   etececegat tggtgagace agaggttgat gtgatgtgca etgettttca tgacaatgaa
                                                                        540
   gagacatttt tgaaaaaata ettatatgaa attgccagaa gacateetta ettttatgee
                                                                        600
   coggaacted tittetitige taaaaggtat aaagetgett tiacagaatg tigecaaget
                                                                        660
   gctgataaag ctgcctgcct gttgccaaag ctcgatgaac ttcgggatga agggaaggct
                                                                        720
   tegtetgeca aacagagact caaatgtgec agtetecaaa aatttggaga aagagettte
                                                                         780
   aaagcatggg cagtggctcg cctgagccag agatttccca aagctgagtt tgcagaagtt
                                                                         840
   tccaagttag tgacagatct taccaaagtc cacacggaat gctgccatgg agatctgctt
                                                                         900
```

すす ひ フンパリサムリン

```
gaatgtgctg atgacagggc ggaccttgcc aagtatatct gtgaaaatca ggattcgatc
                                                                      960
tccagtaaac tgaaggaatg ctgtgaaaaa cctctgttgg aaaaatccca ctgcattgcc
                                                                     1020
gaagtggaaa atgatgagat geetgetgae ttgeetteat tagetgetga ttttgttgaa
                                                                     1080
agtaaggatg tttgcaaaaa ctatgctgag gcaaaggatg tcttcctggg catgttttg
                                                                     1140
tatgaatatg caagaaggca tcctgattac tctgtcgtgc tgctgctgag acttgccaag
                                                                     1200
acatatgaaa ccactctaga gaagtgctgt gccgctgcag atcctcatga atgctatgcc
                                                                     1260
aaagtgttcg atgaatttaa acctcttgtg gaagagcctc agaatttaat caaacaaaac 1320
tgtgagcttt ttaagcagct tggagagtac aaattccaga atgcgctatt agttcgttac
                                                                     1380
accaagaaag taccccaagt gtcaactcca actcttgtag aggtctcaag aaacctagga
                                                                     1440
aaagtgggca gcaaatgttg taaacatcct gaagcaaaaa gaatgccctg tgcagaagac
                                                                    ...1500
tatctatccg tggtcctgaa ccagttatgt gtgttgcatg agaaaacgcc agtaagtgac
                                                                     1560
agagtcacaa aatgctgcac agagtccttg gtgaacaggc gaccatgctt ttcagctctg
                                                                     1620
gaagtegatg aaacatacgt teecaaagag tttaatgetg aaacatteae ettecatgea
                                                                     1680
gatatatgca cactttctga gaaggagaga caaatcaaga aacaaactgc acttgttgag
                                                                     1740
cttgtgaaac acaagcccaa ggcaacaaaa gagcaactga aagctgttat ggatgatttc
                                                                     1800
gcagcttttg tagagaagtg ctgcaaggct gacgataagg agacctgctt tgccgaggag
                                                                     1860
ggtaaaaaac ttgttgctgc aagtcaagct gccttaggct tataacatct acatttaaaa
                                                                     1920
gcatctcage ctaccatgag aataagagaa agaaaatgaa gatcaaaage ttattcatct
                                                                     1980
gttttctttt tcgttggtgt aaagccaaca ccctgtctaa aaaacataaa tttctttaat
                                                                     2040
cattttgcct cttttctctg tgcttcaatt aataaaaaat ggaaagaatc taatagagtg
                                                                     2100
gtacagcact gttatttttc aaagatgtgt tgctatcctg aaaattctgt aggttctgtg
                                                                     2160
gaagttccag tgttctctct tattccactt cggtagagga tttctagttt ctgtgggcta
                                                                     2220
attaaataaa tcactaatac tcttctaagt t
                                                                     2251
```

<210> 804

<211> 609

<212> PRT

<213> Homo Sapiens

: ::

<400> 8040a a ya 10004a 1000

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala 1 30**5**00 3360 \$360 4 Tyr Ser Arg Gly Val Phe Arg Arg Asp Ala His Lys Ser Glu Val Ala 25 30 His Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala Leu Val Leu 40 Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe Glu Asp His Val 55 Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp 70 75 Glu Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp 85 90 Lys Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala 100 105 Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln 120 . 125 His Lys Asp Asp Asn Pro Asn Leu Pro Arg Leu Val Arg Pro Glu Val 135 140 Asp Val Met Cys Thr Ala Phe His Asp Asn Glu Glu Thr Phe Leu Lys 150 155 Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro 170 Glu Leu Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys 180 185 Cys Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu

			195					200					205				
				Glu	Gly	Lys			Ser	Ala	Lys	Gln 220	Arg	Leu	Lys	Cys	
			Leu	Gln	Lys	Phe	Gly	Glu	Arg	Ala	Phe	Ļys	Ala	Trp	Ala	Val	
	225					230					235					240	
	Ala	Arg	Leu	Ser	Gln 245	Arg	Phe	Pro	Lys	Ala 250	Glu	Phe	Ala	Glu	Val 255	Ser	
•	Lys	Leu	Val	Thr 260	Asp	Leu	Thr	Lys	Val 265	His	Thr	Glu	Cys	Cys 270	His	Gly	
	Asp	Leu	Leu 275	Glu	Cys	Ala	Asp	Asp 280	Arg	Ala	Asp	Leu	Ala 285	Lys	Tyr	Ile	
	Cys	Glu 290	Asn	Gln	Asp	Ser	Ile 295	Ser	Ser	Lys	Leu	Lys 300	Glu	Cys	Cys	Glu	
	Lys		Leu	Leu	Glu	Lys	Ser	His	Cys	Ile	Ala	Glu	Val	Glu	Asn	Asp	
	305					310					315					320	
	Glu	Met	Pro	Ala	Asp 325	Leu	Pro	Ser	Leu	Ala 330	Ala	Asp	Phe	Val	Glu 335	Ser	
	-	_		340	_	Asn			345					350			
			3.55	_		Tyr		360					365				•
		370				Ala	375					380			-		··· - ·
	-		Ala	Ala	Asp	Pro	His	Glu	Cys	Tyr			Val	Phe	Asp		
	385		_	_	7	390	<b>a</b> 1	D	<b>01</b>	3	395		T	d1	3	400	
		-			405					410					415	_	
	Glu	Leu	Phe								Phe	Gln	Asn			Leu	11.
				420					425			mı.	<b>.</b>	430			
e e e e e e e e e e e e e e e e e e e	٠	.:· _	435			•		440					445			· .:	e territoria de territoria. Como esta de territoria de
		Val 450		Arg			Gly 455		Val	Gly	Ser	Lys 460					Torong Taite () ) 1 (Torong Rive
	Pro	Glu	Ala	Lys	Arg	Met	Pro	Cys	Ala	Glu	Asp	Tyr	Leu	Ser	Val	Val	* • • •
•	465					470				_	475					480	
					485					490	)			•	495		
				500	•			•	505	;				510	)	Phe	•
			515			_		520	)				525			ı Ala	
		530	)				535	5				540	)			s Glu	
	-	•	ılle	Lys	Lys			Ala	a Lei	ı Val			ı Val	. Lys	His	E Lys	
	545		, <b>,</b> , , , ,	ml	. Y	550		. T	· Tar-	יות.	555 3 Vol		- n	· 7	. ኮኤ	560	
		_			569	5				570	0				57		
				580	)				58	5				590	)	s Phe	
	Ala	a Glı	a Gli 59!	-	y Lys	s Lys	s Lei	1 Va 60		a.Ala	a Se:	r Glr	n Ala		a Le	u Gly	
	Le	u															

TT U 77/07402

#### <400> 805

acaaacacca aggaqtggag gtcagagtgt cacttttttg ttttcttttt gaaagatcat 60 togagaaaca ogtoactgat otococtgog accatgtott coattaagat tgagtgtgtt 120 ttqccagaga actgccggtg tggtgagtct ccagtatggg aggaagtgtc caactctctq 180 ctctttgtag acattcctgc aaaaaaggtt tgccggtggg attcattcac caagcaagta 240 caqcqagtga ccatggatgc cccagtcagc tccgtggctc ttcgccagtc gggaggctat 300 gttgccacca ttggaacaaa gttctgtgct ttgaactgga aagaacaatc agcagttqtc 360 ttggccacgg tggataacga caagaaaaac aatcgcttca atgatgggaa ggtggatccc 420 qccqqqaqqt actttgctgq caccatggct gaggaaacag ctccagcagt tcttqaqcqq 480 caccaggggg coctgtactc cotottteet gatcaccacg tgaaaaagta ctttgaccaq 540 gtggacattt ccaatggttt ggattggteg ctagaccaca aaatetteta ttacattgac 600 agectqtect acteeqtqqa tqeetttqae tatqaeetqe agacaqqaea qateteeaae 660 cgcagaagtg tttacaagct agaaaaggaa gaacaaatcc cagatggaat gtgtattqat 720 gctgagggga agctctgggt ggcctgttac aatggaggaa gagtgattcg tttagatcct 780 gtgacaggga aaagacttca aactgtgaag ttgcctgttg ataaaacaac ttcatgctqc 840 tttggaggga agaattactc tgaaatgtat gtgacctgcg cccgggatgg gatggacccc 900 gagggtettt tgaggeaacc tgaagetggt ggaattttca agataactgg tetqqqqqte 960 aaaggaattg ctccctactc ctatgcggga tgaggacagg tcttctttcc tgccagagqq 1020 agototgaag acaactagag aattotgggo otgaaattto aatotagtta gaaagaaaaa 1080 tgaggcaatg attitattaa cagcgttaag tittaatitta caacttitaa aaggcagagc 1140 attittaaca aggggtgaca ggtggttittg ataacacact tataaggctt tctqtaaaag 1200 gtactataga agggcgaaga atcgttcaac tgtcaatcag cctcttgatt ctttgtaaat 1260 tgccagggtg ggtgggtaca tatetettet tgattetgea tttcataett aactatatta 1320 aagcttcaag gaacaataaa tagtaacctg gtaatg 1356

计内容 化二氯化氯化氯化

<210> 806
<211> 299
<212> PRT

<213> Homo Sapiens

### <400> 806

Met Ser Ser Ile Lys Ile Glu Cys Val Leu Pro Glu Asn Cys Arg Cys 10 Gly Glu Ser Pro Val Trp Glu Glu Val Ser Asn Ser Leu Leu Phe Val 25 Asp Ile Pro Ala Lys Lys Val Cys Arg Trp Asp Ser Phe Thr Lys Gln Val Gln Arg Val Thr Met Asp Ala Pro Val Ser Ser Val Ala Leu Arg 55 Gln Ser Gly Gly Tyr Val Ala Thr Ile Gly Thr Lys Phe Cys Ala Leu 70 75 Asn Trp Lys Glu Gln Ser Ala Val Val Leu Ala Thr Val Asp Asn Asp 90 Lys Lys Asn Asn Arg Phe Asn Asp Gly Lys Val Asp Pro Ala Gly Arg 105 Tyr Phe Ala Gly Thr Met Ala Glu Glu Thr Ala Pro Ala Val Leu Glu 120 Arg His Gln Gly Ala Leu Tyr Ser Leu Phe Pro Asp His His Val Lys 135 Lys Tyr Phe Asp Gln Val Asp Ile Ser Asn Gly Leu Asp Trp Ser Leu 155 150

マヤ 👽 ノノ! ひてんひご

```
Asp His Lys Ile Phe Tyr Tyr Ile Asp Ser Leu Ser Tyr Ser Val Asp
                                     170
Ala Phe Asp Tyr Asp Leu Gln Thr Gly Gln Ile Ser Asn Arg Arg Ser
                                 185
 Val Tyr Lys Leu Glu Lys Glu Glu Gln Ile Pro Asp Gly Met Cys Ile
                             200
 Asp Ala Glu Gly Lys Leu Trp Val Ala Cys Tyr Asn Gly Gly Arg Val
                         215
                                             220
 Ile Arg Leu Asp Pro Val Thr Gly Lys Arg Leu Gln Thr Val Lys Leu
                     230
 Pro Val Asp Lys Thr Thr Ser Cys Cys Phe Gly Gly Lys Asn Tyr Ser
                 245
                                     250
 Glu Met Tyr Val Thr Cys Ala Arg Asp Gly Met Asp Pro Glu Gly Leu
                                 265
 Leu Arg Gln Pro Glu Ala Gly Gly Ile Phe Lys Ile Thr Gly Leu Gly
                             280
 Val Lys Gly Ile Ala Pro Tyr Ser Tyr Ala Gly
     290
                         295
       <210> 807
       <211> 1980
       <212> DNA
       <213> Homo Sapiens
       <400> 807
 atgccaagta gtttgctgct agcaaccaga aaccaaatcc tgtctatgat gaactgttqq
                                                                         60
 ttttcttgtg ctcccaagaa cagacatgca gcagattgga acaaatatga tgaccgattg
                                                                        120
 atgaaagccg cggagagggg agatgtagaa aaagtttcct caatccttgc taaaaaqqqc
                                                                        180
 atcaatccag gcaaactaga tgtggaaggc agatctgcct tccatgttgt ggcctcaaag
                                                                        240
 gggaatettg aatgtttgaa tgecateett atacatggag ttgatattae aaccagtgae
                                                                      300
 actgcaggaa gaaatgctct tcacttggct gcaaagtatg ggcatgcatt gtgtctacaa
                                                                        360
 aaacttctac agtacaattg tcccactgaa catgcagacc tgcagggaag aaccqcactt
                                                                       420
 catgacgcag caatggcaga ctgtccttcc agcatacagc tgctttgtga ccatqqqqcc
                                                                       480
 teegtgaatg ccaaagatgt ggatgggegg acacegetgg ttetggetac teagatgtgt
                                                                       540
 aggccagcaa tctgtcaact gctgatagat cgaggggcag agattaattc cagagacaaa
                                                                        600
 caaaacagaa ctgctctcat gcttggttgc gagtatggtt gtaaggatgc tgtaqaaqtc
                                                                        660
 ttacttaaaa atggtgctga tgtaagcctg ctggatgcct tgggccatga tagttcttac
                                                                        720
 tatgcaagaa ttggtgacaa tctggacatt ctaactttat tgaagactgc gtcagaaaat
                                                                        780
 accaacaaag ggagagaact ttggaagaaa ggaccatctt tacagcagcg aaatttgccg
                                                                        840
  tacatgctag atgaagtaaa tgtgaagtca agtcagaggg agcatcgaaa cattcaggag
                                                                        900
  ctggagattg aaaatgaaga tttgaaagac aggttgagaa aaattcagca agaacagaga
                                                                        960
  atattactgg ataaagtcaa tggtttacaa ctacagctga atgaggaagt gatggttgct
                                                                       1020
  gatgatetgg aaagtgagaa agaaaagetg aagtetettt tggtggetaa agaaaageaa
                                                                       1080
  catgaagaaa goctaagaac tattgagtot otgaaaaaca gatttaaata tittgagtgt
                                                                       1140
  acttccccag gggtgccagc ccacatgcaa agcaggtcta tgttaagacc actggaqcta
                                                                       1200
  tcattaccca atcaaacctc atattctgaa aatgacctct taaagaaaga gttagaagca
                                                                       1260
  atgagaactt tetgegaate ageeaaacaa gaeegeetea ageteeagaa eggagtggeq
                                                                       1320
  cacaaggtgg ctgagtgcaa agctttagga ctagaatgtg aacgcatcaa ggaggactct
                                                                       1380
  gatgagcaga taaagcagtt agaagacgca ttgaaagatg tgcagaagag aatgtatgag
                                                                       1440
  toggaaggta aagtaaaaca aatgcagaca cactttottg coottaaaga gcacotgaco
                                                                       1500
  agtgaagcag ctatagggaa tcacagacta atggaggagc tgaaggatca gttgaaggac
                                                                       1560
  atgaaagcga aatatgaggg tgcatcagca gaagtgggaa aactgcgaaa ccaaatcaaa
                                                                        1620
  caaaatgagc tgctagtaga acagtttagg agagatgaag gcaagctggt ggaagagaat
                                                                       1680
  aagegattge agaaggaact cagtatgtgt gaaacggage gagacaagaa aggaaggagg
                                                                       1740
  gttgctgagg tggaaggcca ggtaaaggaa ctcttagcaa agctgacctt gtcagttcca
```

1800

actgaaaaat ttgagagcat gaagagctta ttatcaagcg aagtaaatga gaaggtgaaa 1860 aaaattggag agacagaaag agagtatgaa aaatcactta ctgaaatcag acagttaagg 1920 agagagettg agaattgtaa gegeeaaaet teeteageat gteaageeag aggageatga 1980 <210> 808 <211> 659 <212> PRT <213> Homo Sapiens <400> 808 Met Pro Ser Ser Leu Leu Leu Ala Thr Arg Asn Gln Ile Leu Ser Met Met Asn Cys Trp Phe Ser Cys Ala Pro Lys Asn Arg His Ala Ala Asp 25 Trp Asn Lys Tyr Asp Asp Arg Leu Met Lys Ala Ala Glu Arg Gly Asp 40 Val Glu Lys Val Ser Ser Ile Leu Ala Lys Lys Gly Ile Asn Pro Gly Lys Leu Asp Val Glu Gly Arg Ser Ala Phe His Val Val Ala Ser Lys Gly Asn Leu Glu Cys Leu Asn Ala Ile Leu Ile His Gly Val Asp Ile Thr Thr Ser Asp Thr Ala Gly Arg Asn Ala Leu His Leu Ala Ala Lys 105 Tyr Gly His Ala Leu Cys Leu Gln Lys Leu Gln Tyr Asn Cys Pro 120 125 Thr Glu His Ala Asp Leu Gln Gly Arg Thr Ala Leu His Asp Ala Ala 135 140 Met Ala Asp Cys Pro Ser Ser Ile Gln Leu Leu Cys Asp His Gly Ala 150 March 260 (155) Ser Val Asn Ala Lys Asp Val Asp Gly Arg Thr Pro Leu Val Leu Ala 165 Champan (A.C.) 484, 170 Thr Gln Met Cys Arg Pro Ala Ile Cys Gln Leu Leu Ile Asp Arg Gly 185 Ala Glu Ile Asn Ser Arg Asp Lys Gln Asn Arg Thr Ala Leu Met Leu 200 Gly Cys Glu Tyr Gly Cys Lys Asp Ala Val Glu Val Leu Leu Lys Asn 215 Gly Ala Asp Val Ser Leu Leu Asp Ala Leu Gly His Asp Ser Ser Tyr 230 235 . Tyr Ala Arg Ile Gly Asp Asn Leu Asp Ile Leu Thr Leu Leu Lys Thr 245 250 Ala Ser Glu Asn Thr Asn Lys Gly Arg Glu Leu Trp Lys Lys Gly Pro 265 Ser Leu Gln Gln Arg Asn Leu Pro Tyr Met Leu Asp Glu Val Asn Val 280 Lys Ser Ser Gln Arg Glu His Arg Asn Ile Gln Glu Leu Glu Ile Glu 295 Asn Glu Asp Leu Lys Asp Arg Leu Arg Lys Ile Gln Gln Glu Gln Arg 310 315 Ile Leu Leu Asp Lys Val Asn Gly Leu Gln Leu Gln Leu Asn Glu Glu 330 Val Met Val Ala Asp Asp Leu Glu Ser Glu Lys Glu Lys Leu Lys Ser

340 345 350 Leu Leu Val Ala Lys Glu Lys Gln His Glu Glu Ser Leu Arg Thr Ile

```
360
                                                  365
  Glu Ser Leu Lys Asn Arg Phe Lys Tyr Phe Glu Cys Thr Ser Pro Gly
                          375
                                              380
  Val Pro Ala His Met Gln Ser Arg Ser Met Leu Arg Pro Leu Glu Leu
                                          395
  Ser Leu Pro Asn Gln Thr Ser Tyr Ser Glu Asn Asp Leu Leu Lys Lys
                                      410
  Glu Leu Glu Ala Met Arg Thr Phe Cys Glu Ser Ala Lys Gln Asp Arg
                                  425
  Leu Lys Leu Gln Asn Gly Val Ala His Lys Val Ala Glu Cys Lys Ala
                              440
                                                  445
  Leu Gly Leu Glu Cys Glu Arg Ile Lys Glu Asp Ser Asp Glu Gln Ile
                          455
  Lys Gln Leu Glu Asp Ala Leu Lys Asp Val Gln Lys Arg Met Tyr Glu
                      470
                                          475
  Ser Glu Gly Lys Val Lys Gln Met Gln Thr His Phe Leu Ala Leu Lys
                  485
                                     490
  Glu His Leu Thr Ser Glu Ala Ala Ile Gly Asn His Arg Leu Met Glu
                                  505
  Glu Leu Lys Asp Gln Leu Lys Asp Met Lys Ala Lys Tyr Glu Gly Ala
         515
                              520
                                                  525
  Ser Ala Glu Val Gly Lys Leu Arg Asn Gln Ile Lys Gln Asn Glu Leu
                         535
                                              540
  Leu Val Glu Gln Phe Arg Arg Asp Glu Gly Lys Leu Val Glu Glu Asn
  545
                      550
  Lys Arg Leu Gln Lys Glu Leu Ser Met Cys Glu Thr Glu Arg Asp Lys
              . . 565
                                      570
  Lys Gly Arg Arg Val Ala Glu Val Glu Gly Gln Val Lys Glu Leu Leu
  (基础等)で提供している580で
                                  585
                                                      590
                                                                    5 Fan 157 Au 30
Ala Lys Leu Thr Leu Ser Val Pro Thr Glu Lys Phe Glu Ser Met Lys (1985) (1986) (1986)
 . em 14. j 2 Min 5 9 5 7 . . . . .
                            ... 600
                                                  605
  "Ser Leu Leu Ser Ser Glu Val Asn Glu Lys Val Lys Lys Ile Gly Glu
                                                                   位置:# 2016的 经总统产品的
  7070 610 m 304
                          615
                                              620
                                                                    CONTRACTOR DATE OF
  Thr Glu Arg Glu Tyr Glu Lys Ser Leu Thr Glu Ile Arg Gln Leu Arg
  625 . . . . . . . . . . 630
                                          635
                                                                     640
  Arg Glu Leu Glu Asn Cys Lys Arg Gln Thr Ser Ser Ala Cys Gln Ala
                  645
                                       650
  Arg Gly Ala
         <210> 809
         <211> 1725
         <212> DNA
         <213> Homo Sapiens
         <400> 809
   tttctttgtt aagtcgttcc ctctacaaag gacttcctag tgggtgtgaa aggcagcggt
   ggccacagag geggeggaga gatggccttc ageggttccc aggctcccta cctgagtcca
                                                                         120
   getgteecet titetgggae tatteaagga ggteteeagg acggaettea gateaetgte
                                                                         180
   aatgggaccg ttctcagctc cagtggaacc aggtttgctg tgaactttca gactggcttc
                                                                         240
   agtggaaatg acattgcctt ccacttcaac cctcggtttg aagatggagg gtacgtggtg
                                                                         300
```

360

420

480

540

tgcaacacga ggcagaacgg aagctggggg cccgaggaga ggaagacaca catgcctttc

cagaagggga tgccctttga cctctgcttc ctggtgcaga gctcagattt caaggtgatg

gtgaacggga tectettegt geagtactte cacegegtge cettecaceg tgtggacace

atotocgtca atggototgt goagotgtco tacatoagot tocagaacco cogcacagto

```
cctgttcagc ctgccttctc cacggtgccg ttctcccagc ctgtctgttt cccacccagg
                                                                     600
cccagggggc gcagacaaaa acctcccggc gtgtggcctg ccaacccggc tcccattacc
                                                                     660
cagacagtea tecacacagt geagagegee cetggacaga tgttetetae tecegecate
                                                                     720
ccacctatga tgtaccccca ccccgcctat ccgatgcctt tcatcaccac cattctggga
                                                                     780
gggctgtacc catccaagtc catcctcctg tcaggcactg tcctgcccag tgctcagagg
                                                                     840
ttccacatca acctgtgctc tgggaaccac atcgccttcc acctgaaccc ccgttttgat
                                                                     900
qaqaatqctg tggtccgcaa cacccagatc gacaactcct gggggtctga ggagcgaagt
                                                                    . 96.0
ctgccccgaa aaatgccctt cgtccgtggc cagagcttct cagtgtggat cttgtgtgaa
                                                                    1020
gctcactgcc tcaaggtggc cgtggatggt cagcacctgt ttgaatacta ccatcgcctg
                                                                    1080
aggaacctgc ccaccatcaa cagactggaa gtggggggcg acatccagct gacccatgtg
                                                                    1140
cagacatagg eggetteetg geeetgggge egggggetgg ggtgtgggge agtetgggte
                                                                    1200
ctctcatcat ccccacttcc caggcccagc ctttccaacc ctgcctggga tctgggcttt
                                                                    1260
aatgcagagg ccatgtcctt gtctggtcct gcttctggct acagccaccc tggaacggag
                                                                    1320
aaggcagetg acggggattg cetteetcag cegcageage acetgggget ceagetgetg
                                                                    1380
gaatcctacc atcccaggag gcaggcacag ccagggagag gggaggagtg ggcagtgaag
                                                                    1440
atquagecce atgeteagte cecteccate ecceaegeag etecaeecea gteccaagee
                                                                    1500
accagetgte tgeteetggt gggaggtgge etceteagee ecteetetet gaeetttaae
                                                                    1560
ctcactctca ccttgcaccg tgcaccaacc cttcacccct cctggaaagc aggcctgatg
                                                                    1620
getteceact ggeetecace acetgaceag agtgttetet teagaggact ggeteettte
                                                                    1680
ccagtgtcct taaaataaag aaatgaaaat gcttgttggc acatt
                                                                    1725
     <210> 810
     <211> 355
     <212> PRT
     <213> Homo Sapiens
     <400> 810
Met Ala Phe Ser Gly Ser Gln Ala Pro Tyr Leu Ser Pro Ala Val Pro
                                   10 15
Phe Ser Gly Thr Ile Gln Gly Gly Leu Gln Asp. Gly Leu Gln Ile Thr
                                                                 . Jen
   20
                               25
                                            ". : 30:
Val Asn Gly Thr Val Leu Ser Ser Ser Gly Thr Arg Phe Ala Val Asn
                                                                   11 1985 W. C
                           40
                                           45
Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile Ala Phe His Phe Asn Pro
                                                                      Ĵ
                       55
Arg Phe Glu Asp Gly Gly Tyr Val Val Cys Asn Thr Arg Gln Asn Gly
                   70
                                       75
Ser Trp Gly Pro Glu Glu Arg Lys Thr His Met Pro Phe Gln Lys Gly
Met Pro Phe Asp Leu Cys Phe Leu Val Gln Ser Ser Asp Phe Lys Val
           100
                               105
Met Val Asn Gly Ile Leu Phe Val Gln Tyr Phe His Arg Val Pro Phe
                            120
                                               125
His Arg Val Asp Thr Ile Ser Val Asn Gly Ser Val Gln Leu Ser Tyr
                       135
                                           140
Ile Ser Phe Gln Asn Pro Arg Thr Val Pro Val Gln Pro Ala Phe Ser
                   150
                                        155
Thr Val Pro Phe Ser Gln Pro Val Cys Phe Pro Pro Arg Pro Arg Gly
                165
                                    170
                                                       175
Arg Arg Gln Lys Pro Pro Gly Val Trp Pro Ala Asn Pro Ala Pro Ile
                                185
Thr Gln Thr Val Ile His Thr Val Gln Ser Ala Pro Gly Gln Met Phe
                            200
                                                205
Ser Thr Pro Ala Ile Pro Pro Met Met Tyr Pro His Pro Ala Tyr Pro
                       215
```

220

```
Met Pro Phe Ile Thr Thr Ile Leu Gly Gly Leu Tyr Pro Ser Lys Ser
                    230
Ile Leu Leu Ser Gly Thr Val Leu Pro Ser Ala Gln Arg Phe His Ile
                                    250
                245
Asn Leu Cys Ser Gly Asn His Ile Ala Phe His Leu Asn Pro Arg Phe
                                                     270
                                265
Asp Glu Asn Ala Val Val Arg Asn Thr Gln Ile Asp Asn Ser Trp Gly
                            280
                                                 285
        275
Ser Glu Glu Arg Ser Leu Pro Arg Lys Met Pro Phe Val Arg Gly Gln
                        295
Ser Phe Ser Val Trp Ile Leu Cys Glu Ala His Cys Leu Lys Val Ala
                                        315
                    310
Val Asp Gly Gln His Leu Phe Glu Tyr Tyr His Arg Leu Arg Asn Leu
                                     330
                325
Pro Thr Ile Asn Arg Leu Glu Val Gly Gly Asp Ile Gln Leu Thr His
                                345
Val Gln Thr
        355
      <210> 811
      <211> 1022
      <212> DNA
      <213> Homo Sapiens
      <400> 811
qcctqtqqqt ctccattqcc cagcttttqc ctgcactctt gcctqctqcc ctgaccagag
                                                                        60
tcatcatgtc tcttgagcag aagagtcagc actgcaagcc tgaggaaggc gttgaggccc
                                                                        120
aagaagaggc cctgggcctg gtgggtgcac aggctcctac tactgaggag caggaggctg
                                                                        180
ctgtctcctc ctcctcct ctggtcctgg gcaccctgga gaaagtgcct gctgctgagt
                                                                        240
caqcaqatec tecceagagt ceteagggag cetetgeett acceaetace atcagettea
                                                                        300
 cttgctggag gcaacccaat gagggttcca gcagccaaga agaggaggag gccagcacct
                                                                        360
 egectqaeqe aqaqteettg: tteegagaag caeteagtaa caaggtggat gagttggete
                                                                        420
 attttctqct ccqcaaqtat cgagccaagg agctggtcac aaaggcagaa atgctggaga
                                                                        480
 gagtcatcaa aaattacaag cgctgctttc ctgtgatctt cggcaaagcc tccgagtccc
                                                                        540
 tgaagatgat ctttggcatt gacgtgaagg aagtggaccc cgccagcaac acctacaccc
                                                                        600
 ttqtcacctq cctqqqcctt tcctatgatq qcctqctqqq taataatcag atctttccca
                                                                        660
 agacaggeet cetgataate gteetgggea caattgeaat ggagggegae agegeetetg
                                                                        720
 aqqaqqaaat ctqqqaqqag ctgggtgtga tgggggtgta tgatgggagg gagcacactg
                                                                        780
 tctatgggga gcccaggaaa ctgctcaccc aagattgggt gcaggaaaac tacctggagt
                                                                        840
 accggcaggt acccggcagt aatcctgcgc gctatgagtt cctgtggggt ccaagggctc
                                                                        900
 tggctgaaac caqctatqtq aaagtcctgg agcatgtggt cagggtcaat gcaagagttc
                                                                        960
 qcattqccta cccatccctg cgtgaagcag ctttgttaga ggaggaagag ggagtctgag
                                                                       1020
                                                                       1022
       <210> 812
       <211> 317
       <212> PRT
       <213> Homo Sapiens
       <400> 812
 Met Ser Leu Glu Gln Lys Ser Gln His Cys Lys Pro Glu Glu Gly Val
                                      10
 Glu Ala Gln Glu Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Thr
```

***********

20 25 30
Thr Glu Glu Glu Ala Ala Val Ser Ser Ser Pro Leu Val Leu

ママ ひ ファバリマルひご

600

660

720

780

```
40
                                                                                                                                                     45
           Gly Thr Leu Glu Lys Val Pro Ala Ala Glu Ser Ala Asp Pro Pro Gln
                                                                                55
           Ser Pro Gln Gly Ala Ser Ala Leu Pro Thr Thr Ile Ser Phe Thr Cys
                                                                    70
                                                                                                                              75
           Trp Arg Gln Pro Asn Glu Gly Ser Ser Ser Gln Glu Glu Glu Ala
                                                .... 85
                                                                                                          . . 90
           Ser Thr Ser Pro Asp Ala Glu Ser Leu Phe Arg Glu Ala Leu Ser Asn
                                                                                                       105
           Lys Val Asp Glu Leu Ala His Phe Leu Leu Arg Lys Tyr Arg Ala Lys
                                                                                            120
           Glu Leu Val Thr Lys Ala Glu Met Leu Glu Arg Val Ile Lys Asn Tyr
                                                                                 135
           Lys Arg Cys Phe Pro Val Ile Phe Gly Lys Ala Ser Glu Ser Leu Lys
                                                                     150
                                                                                                                               155
           Met Ile Phe Gly Ile Asp Val Lys Glu Val Asp Pro Ala Ser Asn Thr
                                                        165
                                                                                                                   170
           Tyr Thr Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly
           Asn Asn Gln Ile Phe Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Gly
                                                                                           .200
                                                                                                                                                     205
           Thr Ile Ala Met Glu Gly Asp Ser Ala Ser Glu Glu Glu Ile Trp Glu
                                                                                215
           Glu Leu Gly Val Met Gly Val Tyr Asp Gly Arg Glu His Thr Val Tyr
                                                                     230
                                                                                                                              235
           Gly Glu Pro Arg Lys Leu Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr
                                                         245
                                                                                                                   250
          Leu Glu Tyr Arg Gln Val Pro Gly Ser Asn Pro Ala Arg Tyr Glu Phe
         of prince parties 260
                                                                                  265
                                                                                                                                                                 270
                                                                                                                                                                                                        医邻磺基乙酰胺 医海绵 化二氯 医动物
         Lieu Trp: Gly Pro Arg Ala Leu Ala Glu Thr Ser Tyr Val Lys Val Leu Description of the Company of 
       90344550 2751
                                                                                 . 4280
                                                                                                                                                      285
                                                                                                                                                                                                       That the region of the control of
Glu His Val Val Arg Val Asn Ala Arg Val Arg Ile Ala Tyr Pro Ser
   3 737474290079 ASS
                                                                                 295 miles
                                                                                                                                          300
                                                                                                                                                                                                The state of the s
          Leu Arg Glu Ala Ala Leu Leu Glu Glu Glu Gly Val
           305 (6) (3)
                                                                     310
                                                                                                                                                                                                         Switch Company
                             <210> 813
                             <211> 5175
                             <212> DNA
                             <213> Homo Sapiens
                             <400> 813
         gctgctgctg cagtgggaca ggtggcggcg accggcggcg tccgaggaga tttaatccag
                                                                                                                                                                                                                      60
         agactgactt cactatagaa cccacagttg tatcaatggt tggggaaaga tagtggcaac
                                                                                                                                                                                                                   120
         aggcaaagga gaaacagctc tgacatacaa agaaaatgag tatgctaaag ccaagtgggc
                                                                                                                                                                                                                   180
         ttaaggeece caecaagate etgaageetg gaageacage tetgaagaca cetaeggetg
                                                                                                                                                                                                                   240
         ttgtagctcc agtagaaaaa accatatcca gtgaaaaagc atcaagcact ccatcatctg
                                                                                                                                                                                                                   300
         agactcagga ggaatttgtg gatgactttc gagttgggga gcgagtttgg gtgaatggaa
                                                                                                                                                                                                                   360
         ataagcctgg atttatccag tttcttggag aaacccagtt tgcaccaggc cagtgggctg
                                                                                                                                                                                                                    420
         gaattgtttt agatgaaccc ataggcaaga acgatggttc ggtggcagga gttcggtatt
                                                                                                                                                                                                                   480
         tecagtgtga acctttaaag ggcatattta ecegacette aaagttaaca aggaaggtge
                                                                                                                                                                                                                   540
         aagcagaaga tgaagctaat ggcctgcaga caacgcccgc ctcccgagct acttcaccgc
```

tgtgcacttc tacggccagc atggtgtctt cctcccctc cacccttca aacatccctc

agaaaccatc acagccagca gcaaaggaac cttcagctac gcctccgatc agcaacctta

caaaaactgc cagtgaatct atctccaacc tttcagaggc tggctcaatc aagaaaggag

	aaagagagct	caaaatcgga	gacagagtat	tggttggtgg -	cactaaggct (	ggtgtagtcc	840
	ggtttcttgg	ggagaccgac	tttgccaagg	gggagtggtg	tggcgtggag '	ttagatgagc	900
	cacttgggaa	gaatgatggc	gctgttgctg	gaacaaggta	ttttcagtgt	caacccaaat	960
	atggcttgtt	cgctcctgtc	cacaaagtta	ccaagattgg	cțtcccttcc	actacaccag	1020
	ccaaagccaa	ggccaacgca	gtgaggcgag	tgatggcgac	cacgtccgcc	agcctgaagc	1080
	gcagcccttc	tgcctcttcc	ctcagctcca	tgagctcagt	ggeeteetet	gtgagcagca	1140
	ggcccagtcg	gacaggacta	ttgactgaaa	cctcctcccg	ttacgccagg	aagatctccg	1200
	qtaccactgc	cctccaggag	gccctgaagg	agaagcagca	gcacattgag	cagetgetgg	1260
	cqqaacqqqa	tctggagagg	gcggaggtgg	ccaaggccac	gagccacgtg	ggggagatag	1320
•	agcaggagct	agetetggee	cgggacggac	atgaccagca	tgtcctggaa	ttggaagcca	. 1380
	aaatqqacca	gctgcgaaca	atggtggaag	ctgctgacag	ggagaaggtg	gagcttctca	1440
	accagettga	agaggagaaa	aggaaggttg	aggaccttca	gttccgggtt	gaagaagaat	1500
	caattaccaa	aggtgatctt	gaggtggcta	cagtttcaga	aaagtcacgt	ataatggaac	1560
	tggagaaaga	cctagcattg	agagtacagg	aagtagctga	gctccgaaga	aggctagagt	1620
	ccaataaqcc	tgctggggat	gtggacatgt	cactttccct	tttgcaagag	ataagctctt	1680
	tocaagaaaa	gttagaagtc	accegtactg	accaccagag	agaaataact	tctctgaagg	1740
	agcattttgg	agcccgggaa	gaaactcatc	agaaggagat	aaaggctctg	tataccgcca	1800
	cggaaaagct	ttccaaaqaq	aacgagtcat	tgaaaagcaa	gctggagcat	gccaacaaag	1860
	agaactcaga	tataataact	ctatggaagt	ccaaactgga	gactgccatc	gcatcccacc	1920
	agcaggcgat	ggaagaactg	aaggtatctt	tcagcaaagg	gcttggaaca	gagacggcag	1980
	aatttgctga	actaaaaaca	caaatagaga	aaatgagact	agattaccaa	cacgaaatag	2040
	aaaatttgca	qaatcaacaa	gactctgaac	gggctgccca	tgctaaagag	atggaagcct	2100
	tgagggctaa	actgatgaaa	gttattaaag	aaaaggaaaa	cagtctggaa	gccatcaggt	2160
	cgaaactgga	caaaqcaqaa	gaccagcatc	tcgtagaaat	ggaagacacg	ttaaacaaat	2220
					gcaagccaaa		2280
	aaaccaaqqt	tattgataat	tttacatcac	agctcaaggc	tactgaagaa	aagctcttgg	2340
•					ggaaatgaag		2400
	agcagcttga	ggcagctgag	aaacagatta	aacatttaga	gattgaaaag	aatgctgaaa	. 3 . 24 6.0
					agagctaaag		rt : 2:5:2:0:
	* ttcaggaaaa	tttqaqtqaa	gtcagtcaag	tgaaagagac	tttggaaaaa	gaacttcaga	cc2580
	ttttqaaaqa	aaagtttgct	gaagetteag	aggaggcagt	ctctgttcag	agaagtatgc	.÷£2640
e di di	aagaaactgt	aaataagtta	caccaaaagg	aggaacagtt	taacatgctg	tcttctgact	. ജൂ <b>2.7,0</b> .0 :
Same?	tggagaagct	gagagaaaac	ttagcagata	tggaggcaaa	atttagagag	aaagatgaga	#J2760
	gagaagagca	gctgataaag	gcaaaggaaa	aactggaaaa	tgacattgca	gaaataatga	2820
+ A	agatgtcagg	agataactct	tctcagctga	caaaaatgaa	cgatgaatta	cgtctgaaag	2880
	aaagagatgt	agaagaatta	cagetaaaac	ttacaaaggc	taatgaaaat	gcaagttttc	2940
	tgcaaaaaag	tattgaggag	atgactgtca	. aagctgaaca	. gagccagcaa	gaagcagcta	3000
	aaaagcatga	ggaagaaaag	aaagaattgg	agaggaaatt	gtcggacctg	gaaaagaaaa	3060
					gtatgagaga		3120
					gaagacgctg		3180
	aggacaagct	gaagggcgca	cgggaggaga	ı acagtggctt	. gctgcaggag	ctggaggagc	3240
	tgagaaagca	agccgagaaa	gccaaagctg	g ctcaaacago	ggaagatgcc	atgcagataa	3300
	tggaacagat	gaccaaagag	g aagactgaga	a ctctggcctc	cttggaggac	accaagcaaa	3360
						aaaaatgtgg	3420
	aagagctgaa	a caaatcaaa	a gaactcctga	a ctgtagagaa	a tcaaaaaatg	gaagaattta	3480
	ggaagaaat	- adaaacccta	a aagcaggcag	g cagctcagaa	a gtcccagcag	ctttcagcgt	3540
					g aagcagggac	gaagtcacaa	3600
	tgcaagaaga gtcatcaaaa	a gaacgttaaa a gctggaagaa	a cttgctgagg a gaaagatctg	g agctggggag g tgctcaataa	a tcagttgtta	ı gaaatgaaaa	3660
	tgcaagaaga gtcatcaaaa	a gaacgttaaa a gctggaagaa	a cttgctgagg a gaaagatctg	g agctggggag g tgctcaataa	a tcagttgtta		3660 3720
	tgcaagaaga gtcatcaaaa aaagagaato	a gaacgttaaa a gctggaagaa c caagttcata	a cttgctgagg a gaaagatctg a aaagacgcag	g agctggggag g tgctcaataa g atgaagagaa	a tcagttgtta a agcttccttg	ı gaaatgaaaa	3660 3720
	tgcaagaaga gtcatcaaa aaagagaato tcagtataa	a gaacgttaaa a gctggaagaa c caagttcata c tagtgcctta	a cttgctgagg a gaaagatctg a aaagacgcag a ctcacagaa	g agctggggag g tgctcaataa g atgaagagaa a aggatgccga	a tcagttgtta a agcttccttg a gctggagaaa	gaaatgaaaa g cagaaatcca	3660 3720 3780
	tgcaagaaga gtcatcaaa aaagagaato tcagtataa aggtcacag	a gaacgttaaa a gctggaagaa c caagttcata c tagtgcctta t gctcagggg	a cttgctgagg a gaaagatctg a aaagacgcag a ctcacagaa a gaaaacgcc	g agctggggaggggggggggggggggggggggggggggg	a tcagttgtta a agcttccttg a gctggagaaa c cttgcattca	gaaatgaaaa cagaaatcca ctgagaaatg	3660 3720 3780 3840
	tgcaagaaga gtcatcaaaa aaagagaato tcagtataaa aggtcacag ctctagagt aagaaaaca	a gaacgttaaa gctggaagaa caagttcata tagtgcctta gctcaggggac tgataaggta gaggcagct	a cttgctgagg a gaaagatctg a aaagacgcag a ctcacagaa a gaaaacgcc g aagctcgag c agcagctcc	g agctggggaggggggggggggggggggggggggggggg	a tcagttgtta a agcttccttg a gctggagaaa c cttgcattca a gaacttggag c agacactcag	a gaaatgaaaa g cagaaatcca a ctgagaaatg a gttgttcaga g cttcaactca g gcagacgagg	3660 3720 3780 3840 3900 3960
	tgcaagaaga gtcatcaaaa aaagagaato tcagtataa aggtcacag ctctagagt aagaaaaca atgaaagag	a gaacgttaaa a gctggaagaa c caagttcata c tagtgcctta t gctcagggg c tgataaggt a gaggcagct c ccaggagag	a cttgctgagg a gaaagatctg a aaagacgcag a ctcacagaa a gaaaacgcc g aagctcgag c agcagctcc t cagattgat	g agctggggaggggggggggggggggggggggggggggg	a tcagttgtta a agcttccttg a gctggagaaa c cttgcattca a gaacttggag c agacactcag c agtaatagtg	a gaaatgaaaa cagaaatca ctgagaaatga gttgttcaga cttcaactca	3660 3720 3780 3840 3900 3960 4020

100

. J 57 W

7.5

57 A

· APPRIL

St.

```
acggggatga cctaaacaat tatgacagtg atgatcagga gaaacagtcc aagaagaaac
                                                                     4140
ctcgcctctt ctgtgacatt tgtgactgct ttgatctcca cgacacagag gattgtccta
                                                                     4200
cccaggcaca gatgtcagag gaccctcccc attccacaca ccatggcagt cggggtgagg
                                                                     4260
aacgcccata ctgtgaaatc tgtgagatgt ttggacactg ggccaccaac tgcaatgacg
                                                                     4320
acgaaacctt ctgatgaagc ctccagtgga gaactgggct tgctcagacg cactcgcatt
                                                                     4380
gacacaacgt aacaccagca ttgtgtgtgc agacttcagg agaactcatg ttattttta
                                                                     4440
accocgtoaa caaatotagg aaaatatttt gatottcaac aaattgccct ttagtotocc
                                                                     4500
cgtatgagtt agaataataa atatttagta ggtgagcttt tcacctcgaa ttttgtttc
                                                                     4560
ttgattttta cgtttgaaga cattgcacca gatgcsatta catttattgg ccccccqacc
                                                                     4620
ttgtagaaaa acccctaccc tcacaatacc ttatttaagt aactttaaat tatgccgtta
                                                                     4680
cttttcatat ttgcactaag atatttccag gctgcatttg tatatttaga ttttttggtt
                                                                     4740
aagetttgae aetggaatga gttgaaaaaa tgtgeeattt tgeattttea tetaeteatt
                                                                     4800
taaagtattt tattettatt caaagaaata tetgagetet ttgcactace tgttateagt
                                                                     4860
agtgccttta cttcaggctt gataatactt aggtgtgatt ataaaatcat gaagcaggta
                                                                     4920
aagggagggg caagcccca aactgctgtg gggacatttt ataatctata tgctgcaccc
                                                                     4980
acttaatcta ctgtggtgtt ttgtttatta gttttgcata atttcagctt ctatatattg
                                                                     5040
tatgtatata ttttttaaaa atctatattt tgggaaaaaa acatacacaa tgtgtctttc
                                                                     5100
tttttggaca tttacctttt tgaaaaagaa aacacttaaa atgatcatta ggacataaca
                                                                     5160
gactagggaa ttccg
                                                                     5175
```

<210> 814 <211> 1392 <212> PRT <213> Homo Sapiens

7.7

530 W.

Life to a

113 749

125

対象の対

<400> 814 Bures & And Burel Met Ser Met Leu Lys Pro Ser Gly Leu Lys Ala Pro Thr Lys The Leu 1 1/2 ... 5 10 Synthebrought for 15% Lys Pro Gly Ser Thr Ala Leu Lys Thr Pro Thr Ala Val Ala Pro 25 2017年,2017年中央建設 30年度和1999年 Val Glu Lys Thr Ile Ser Ser Glu Lys Ala Ser Ser Thr Pro Ser Ser 40 45 : Glu Thr Gln Glu Glu Phe Val Asp Asp Phe Arg Val Gly Glu Arg Val 55 60 Trp Val Asn Gly Asn Lys Pro Gly Phe Ile Gln Phe Leu Gly Glu Thr 70 Gln Phe Ala Pro Gly Gln Trp Ala Gly Ile Val Leu Asp Glu Pro Ile 85 90 Gly Lys Asn Asp Gly Ser Val Ala Gly Val Arg Tyr Phe Gln Cys Glu 105 Pro Leu Lys Gly Ile Phe Thr Arg Pro Ser Lys Leu Thr Arg Lys Val 120 Gln Ala Glu Asp Glu Ala Asn Gly Leu Gln Thr Thr Pro Ala Ser Arg 135 Ala Thr Ser Pro Leu Cys Thr Ser Thr Ala Ser Met Val Ser Ser Ser 150 155 Pro Ser Thr Pro Ser Asn Ile Pro Gln Lys Pro Ser Gln Pro Ala Ala 170 Lys Glu Pro Ser Ala Thr Pro Pro Ile Ser Asn Leu Thr Lys Thr Ala 180 185 Ser Glu Ser Ile Ser Asn Leu Ser Glu Ala Gly Ser Ile Lys Lys Gly 200 205 Glu Arg Glu Leu Lys Ile Gly Asp Arg Val Leu Val Gly Gly Thr Lys

	210					215					220				
Ala	Gly	Val	Val	Arg	Phe	Leu	Gly	Glu	Thr		Phe	Ala	Lys	Gly	Glu
225					230					235					240
Trp	Cys	Gly	Val	Glu 245	Leu	Asp	Glu	Pro	Leu 250	Gly	Ļys	Asn		Gly . 255	Ala
Val	Ala	Gly	Thr 260	Arg	Tyr	Phe	Gln	Cys 265		Pro	Lys	Tyr	Gly 270	Leu	Phe
Ala	Pro	Val 275	His	Lys	Val	Thr	Lys 280		Gly	Phe	Pro	Ser 285		Thr	Pro
77.	7		T 1.00	תות	N a m	77-		7~~	7~~	77-7	Mat		mh x	mh ~	C
	290		Lys			295		_	_		300				
Ala	Ser	Leu	Lys	Arg	Ser	Pro	Ser	Ala	Ser	Ser	Leu	Ser	Ser	Met	Ser
305					310					315					320
Ser	Val	Ala	Ser	Ser	Val	Ser	Ser	Arg	Pro	Ser	Arg	Thr	Gly	Leu	Leu
				325					330					335	
Thr	Glu	Thr	Ser 340	Ser	Arg	Tyr	Ala	Arg 345	Lys	Ile	Ser	Gly	Thr 350	Thr	Ala
Leu	Gln	Glu	Ala	Leu	Lys	Glu	Lys	Gln	Gln	His	Ile	Glu	Gln	Leu	Leu
		355			_		360					365			
Ala	Glu 370	Arg	Asp	Leu	Glu	Arg 375	Ala	Glu	Val	Ala	380	Ala	Thr	Ser	His
Val	Gly	Glu	Ile	Glu	Gln	Glu	Leu	Ala	Leu	Ala	Arg	Asp	Gly	His	Asp
385					390					395			-		400
Gln	His	Val	Leu	Glu	Leu	Glu	Ala	Lys	Met	Asp	Gln	Leu	Arg	Thr	Met
				405					410					415	
Val	Glu	•	Ala 420	-	Arg		Lys	Val 425	Glu	Leu	Leu	Asn	Gln 430	Leu	Glu
Glu	Glu		Arg				Asp		Gln	Phe	Ara	Val		Glu	Glu
,		-		_			_				5	445			
Ser			Lys		-						Val			Tivs	Ser
			aver) in	_	_						460			-1-	
Δτα			∽Glu									Val	Gln	Glu	Val
			विकास					; ;			••••		· · · · ·	014	480
			Arg								Pro	Δla	Glv	Asn	
		171		485					490				_	495	
Asp	) Met	Ser	Leu 500		Leu	Leu	Gln	GLu 505		Ser	Ser	Leu	Gln 510	Glu	Lys
Leu	Glu	Val	Thr	Arg	Thr	Asp	His 520		Arg	Glu	Ile	Thr 525		Leu	Lys
G11	uic		, Gly	תי	λrα	Glu			. Wie	Gln	Tare			Taro	- ות
GIU	530		- Gry	ALG	Arg	535		. 1111	111.5	GII	540		. 116	пур	ALA
Let	ı Tyr	Thi	Ala	Thr	Glu	Lys	Leu	Ser	. Lys	Glu	Asn	Glu	Ser	Leu	Lys
545	5				550					555					560
Ser	. Lys	Let	ı Glu	His 565		Asn	Lys	Glu	Asn 570		Asp	Val	. Ile	Ala 575	
Tr	. Lys	Sei	c Lys	Leu		Thr	Ala		Ala		His	Glr		Ala	
Glı	ı Glu	ı Lei	580 Lys		Ser	· Phe	e Ser	585 Lvs:		/ Lei	ı Glv	7 Thr	590 Glu		Ala
		59!	5			,	600	)	-	•		605	5		
Glı	1 Phe 610		a Glu	ı Leu	Lys	Th:		ı Ile	e Gli	ı Lys	Met 620		g Leu	. Asp	Tyr
Glı	n His	Gl:	u Ile	Glu	Asn	Lei	ı Glr	ı Ası	ı Glı	n Gli	n Asr	Sei	Glu	. Ara	Ala
62					630					635				,	640
Ala	a His	s Al	a Lys	645		: Gl	ı Ala	a Lei	Arg		a Lys	s Lei	ı Met	Lys 655	
				J-1 -	•				J J 1	-				0.00	•

A TOTAL SECTION OF A SECTION OF

and the same of the same

Ile Lys Glu Lys Glu Asn Ser Leu Glu Ala Ile Arg Ser Lys Leu Asp 665 Lys Ala Glu Asp Gln His Leu Val Glu Met Glu Asp Thr Leu Asn Lys 680 685 Leu Gln Glu Ala Glu Ile Lys Val Lys Glu Leu Glu Val Leu Gln Ala 695 Lys Cys Asn Glu Gln Thr Lys Val Ile Asp Asn Phe Thr Ser Gln Leu 710 715 Lys Ala Thr Glu Glu Lys Leu Leu Asp Leu Asp Ala Leu Arg Lys Ala 725 730 Ser Ser Glu Gly Lys Ser Glu Met Lys Lys Leu Arg Gln Gln Leu Glu 745 Ala Ala Glu Lys Gln Ile Lys His Leu Glu Ile Glu Lys Asn Ala Glu 760 765 Ser Ser Lys Ala Ser Ser Ile Thr Arg Glu Leu Gln Gly Arg Glu Leu 775 780 Lys Leu Thr Asn Leu Gln Glu Asn Leu Ser Glu Val Ser Gln Val Lys - 790 795 Glu Thr Leu Glu Lys Glu Leu Gln Ile Leu Lys Glu Lys Phe Ala Glu 805 810 Ala Ser Glu Glu Ala Val Ser Val Gln Arg Ser Met Gln Glu Thr Val 820____ 825 830 Asn Lys Leu His Gln Lys Glu Glu Gln Phe Asn Met Leu Ser Ser Asp 840 845 Leu Glu Lys Leu Arg Glu Asn Leu Ala Asp Met Glu Ala Lys Phe Arg 855 860 Glu Lys Asp Glu Arg Glu Glu Gln Leu Ile Lys Ala Lys Glu Lys Leu 870 875 880 Glu Asn Asp Ile Ala Glu Ile Met Lys Met Ser Gly Asp Asn Ser Ser * 知時の 20% 強力 シンプラス報告 885 890 4 4 5 895 4 4 4 4 4 4 Gln Leu Thr Lys Met Asn Asp Glu Leu Arg Leu Lys Glu Arg Asp Val 905 Glu Glu Leu Gln Leu Lys Leu Thr Lys Ala Asn Glu Asn Ala Ser Phe 920 925 Leu Gln Lys Ser Ile Glu Asp Met Thr Val Lys Ala Glu Gln Ser Gln 935 Gln Glu Ala Ala Lys Lys His Glu Glu Glu Lys Lys Glu Leu Glu Arg 950 955 Lys Leu Ser Asp Leu Glu Lys Lys Met Glu Thr Ser His Asn Gln Cys 965 970 Gln Glu Leu Lys Ala Arg Tyr Glu Arg Ala Thr Ser Glu Thr Lys Thr 980 985 Lys His Glu Glu Ile Leu Gln Asn Leu Gln Lys Thr Leu Leu Asp Thr 1000 1005 Glu Asp Lys Leu Lys Gly Ala Arg Glu Glu Asn Ser Gly Leu Leu Gln 1015 1020 Glu Leu Glu Glu Leu Arg Lys Gln Ala Glu Lys Ala Lys Ala Ala Gln 1030 1035 Thr Ala Glu Asp Ala Met Gln Ile Met Glu Gln Met Thr Lys Glu Lys . 1045 1050 Thr Glu Thr Leu Ala Ser Leu Glu Asp Thr Lys Gln Thr Asn Ala Lys 1065 Leu Gln Asn Glu Leu Asp Thr Leu Lys Glu Asn Asn Leu Lys Asn Val 1080 1085 Glu Glu Leu Asn Lys Ser Lys Glu Leu Leu Thr Val Glu Asn Gln Lys

Tork is

A 25. 1

911:

Control of the second

7U 22U 4FU 10 C FU 10 FU 10 FU 10 C FU 10 
				,				
1090		1095	;		1100			
Met Glu Glu	Phe Arg	Lys Glu	Ile Glu	Thr Leu	Lys Gln	Ala Ala	Ala	
1105	J	1110		1115			112	
Gln Lys Ser	Gln Gln		Ala Leu			Val Lvs	Leu	
GIH DAP Ser	112		u Deu	1130		1135		
- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			A 200 - A 000		Thr Cor			
Ala Glu Glu		Arg Ser					тÀг	
	1140		1,14			1150		
Leu Glu Glu	Glu Arg	Ser Val	Leu Asn	Asn Gln	Leu Leu	Glu Met.	Lys	
1155	;		1160		1165	i		
Lys Arg Glu	Ser Lys	Phe Ile	Lys Asp	Ala Asp	Glu Glu	Lys Ala	Ser	
1170	•	117			1180			
Leu Gln Lys	Ser Tle			Ala Leu		Glu Lvs	Asp	
<del>-</del>	DCL LIC	1190		119			120	
1185	~7 F		3 cm (1)			Ara Clar		
Ala Glu Leu			ASI GIU		var heu			
	120			1210		121		
Asn Ala Ser	Ala Lys	Ser Leu	His Ser	Val Val	Gln Thr		Ser	
	1220		122			1230		
Asp Lys Val	Lys Leu	Glu Leu	Lys Val	Lys Asn	Leu Glu	Leu Gln	Leu	
1235	•		1240	_	1245			
Lys Glu Asn		Gln Leu		Ser Ser	Glv Asn	Thr Asp	Thr	
1250	nys mig	125		502 502	1260			
	G3 3			Clu cor		Nan Dho	Ton	
Gln Ala Asp	Gin Ast		Ara Gri			ASP PHE		
1265	_	1270	_	127			128	
Asn Ser Val	Ile Val	. Asp Leu	Gln Arg		GIn Asp			
•		35		1290		129		
Lys Val Glu	Met Met	: Ser Glu	. Ala Ala	Leu Asn	Gly Asn	Gly Asp	Asp	
-	1300		130	)5 .		1310		
Leu Asn Asn	Tyr Ast	Ser Asp	Asp Glr	. Glu Lys	Gln Ser	Lys Lys	Lys	
131							-	
Pro Arg Leu							Thr	
<del>-</del>	File Cy.			m va		11_0 ,10_		
1330						Dro II i		
Glu Asp Cys	Pro Th							
1345					55			
Thr His His	_				o Tyr Cys			
	13					137		
Glu Met Phe	gly Hi	s Trp Ala	a Thr Asi	n Cys Asr	n Asp Asp	Glu Thi	c Phe	
	1380		13	85		1390		
<210>	815							
	> 647							
	> DNA							
- <b></b> -								
<2133	> Homo S	aprens					•	
		•						
	> 815			•				
ccacgcgtcc								60
ggagcgcacc	ttcatcg	rcca tcaa	gccgga c	ggcgtgca	g cgcggc	ctgg tgg	gcgagat	120
catcaagcgc	ttcgago	aga aggg	attccg c	ctcgtggc	c atgaagt	ttaa taa	gggcctc	180
tgaagaacac								240
ggtgaagtac								300
gaagacaggc								360
								420
tcgtggggac								
aagtgctgaa								480
ttgtgctcat								540
ggcgtggtgt							ıggattga	600
tcattcttt	atagag	cata tttg	rccaata a	agcttttg	g aagccg	a		647

YY U 77/04403

<210> 816 <211> 152 <212> PRT <213> Homo Sapiens

・ 「以外はないない」という。
 ・ に対する物理療法にはからからはいう。
 ・ できるのではない。
 ・ できるのではない。
 ・ さんまで表め、ことにはいる。

<400> 816

Met Ala Asn Leu Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly Val 10 Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly 25 Phe Arg Leu Val Ala Met Lys Phe Leu Arg Ala Ser Glu Glu His Leu Lys Gln His Tyr Ile Asp Leu Lys Asp Arg Pro Phe Phe Pro Gly Leu 55 Val Lys Tyr Met Asn Ser Gly Pro Val Val Ala Met Val Trp Glu Gly 70 75 Leu Asn Val Val Lys Thr Gly Arg Val Met Leu Gly Glu Thr Asn Pro Ala Asp Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys Ile Gln Val 105 Gly Arg Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser Ala Glu Lys 115 120 125 Glu Ile Ser Leu Trp Phe Lys Pro Glu Glu Leu Val Asp Tyr Lys Ser 135 Cys Ala His Asp Trp Val Tyr Glu

-415-

#### WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

INTERNATIONAL PROPERTY	011102202		
(51) International Patent Classification 6 C12N 15/12, C07K 14/705, C12Q 1/6 C07K 16/28, A61K 38/17, 31/70, 39/0 39/395, 48/00	: 8, G01N 33/53, 00, 35/12,	A3	(4
(21) International Application Number:	PCT/US	98/146	79
(22) International Filing Date:	15 July 1998 (	15.07.9	<b>)</b> 8)

(30) Priority Data: 17 July 1997 (17.07.97) US 08/896,164 10 October 1997 (10.10.97) US 60/061,599 10 October 1997 (10.10.97) US 60/061,765 10-October-1997 (10.10.97) US 08/948<del>,</del>705 GB 11 October 1997 (11.10.97) 9721697.2 22 June 1998 (22.06.98) US 09/102,322

(71) Applicant (for all designated States except US): LUDWIG INSTITUTE FOR CANCER RESEARCH [CH/US]; 605 Third Avenue, New York, NY 10158 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): OLD, Lloyd, J. [US/US]; 1345 Avenue of the Americas, New York, NY 10105 (US). SCANLAN, Matthew, J. [US/US]; 1275 York Avenue, New York, NY 10021 (US). STOCKERT, Elisabeth [US/US]; 1275 York Avenue, New York, NY 10021 (US). GURE, Ali [TR/US]; 1275 York Avenue, New York, NY 10021 (US). CHEN, Yao-Tseng [-/US]; The New York Hospital-Cornell Medical Center, Dept. of Pathology, 525 East 68th Street, New York, NY 10021 (US). GOUT, Ivan

(11) International Publication Number:

WO 99/04265

(43) International Publication Date:

28 January 1999 (28.01.99)

154 Jam CANCER ASSOC

[UA/GB]; 91 Riding House Street, London WIP 8BT (GB). O'HARE, Michael [GB/GB]; 91 Riding House Street, London W1P 8BT (GB). OBATA, Yuichi [JP/JP]; Chikusa-Ku, Nagoya 464 (JP). PFREUNDSCHUH, Michael [DE/DE]; Innere Medizin 1, D-66421 Homburg/Saar (DE). TURECI, Ozlem [DE/DE]; Innere Medizin 1, D-66421 Homburg/Saar (DE). SAHIN, Ugur [TR/DE]; Innere Medizin 1, D-66421 Homburg/Saar (DE).

(74) Agent: VAN AMSTERDAM, John, R.; Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(88) Date of publication of the international search report: Palical C 26 August 1999 (26.08.99)

(54) Title: CANCER ASSOCIATED NUCLEIC ACIDS AND POLYPEPTIDES

(57) Abstract

Tumor cell-specific antigens from melanoma cells have previously been identified using autologous cytolytic T cells clones from the patient, but the same approach did not work well with other tumour types. Here, screening of such antigens was successfully performed using antisera from the patient. Provided are several tumor cell-specific antigens, nucleic acids encoding them, antibodies and CTL's directed against these antigens, antigenic fragments diagnostic kits, etc.

# FOR THE PURPOSES OF INFORMATION ONLY

1.35

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

	•						
AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
ΑU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo .
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	ÜA	Ukraine
BR '	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of Americ
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU.	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	zw	Zimbabwe
CI	Côte d'Ivoire	KР	Democratic People's	NZ	New Zealand	277	Zunoadwe
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		•
DE	Germany	LI	Liechtenstein	SD	Sudan		•
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

PCT, . 98/14679 A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/12 C07K14/705 G01N33/53 C12Q1/68 C07K16/28 A61K38/17 A61K31/70 A61K39/00 A61K35/12 A61K39/395 A61K48/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N C07K A61K G01N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. WO 97 17470 A (HOLLAND JAMES F) Χ 1,2, 15 May 1997 4-10,18, 21-23, 27,28, 31,32, 40,42, 44,45, 48-51, 58-60. 67-70, 76-79 Also against claims 82-84,116,117see whole document, particularly the claims

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.					
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>					
Date of the actual completion of the international search  3 June 1999	Date of mailing of the international search report 2 9. 06. 1999					
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan ?  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer					

Smalt, R

Fax: (+31-70) 340-3016

1			PC17. 3 90	7,140/9
	C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
		- Control of Control o		Activative Claim No.
	X	GB 2 273 099 A (ASTA MEDICA AG) 8 June 1994	- <i></i>	1,2, 4-10,31, 32,40, 42,43, 49,50, 58-60, 67,69, 71,72, 74-79, 82-84, 99-104
		Also against claims 108,109,116,117. See whole document, particularly the claims and examples.		
	X	WO 97 17441 A (KISHIMURA MASAAKI ;OSAKADA FUMIO (JP); OSAKI SHOICHI (JP); NAKAO K) 15 May 1997		1,2,4-8, 13,18, 21,22, 24,
				27-29, 31,32, 35,40, 42,44, 45, 47-50, 54,59, 60,63,67
		see the whole document -& EP 0 869 176 A (KANEKA CORPORATION, OSAKA, JAPAN) 7 October 1998 Also against claims 68-72,74,76,77,82,116,117 see claims 10,12; examples 2,5		3 7 4 4 7 3 7 4 4 7 3 7 3 7 3 7 3 7 3 7
	X	WO 97 02362 A (FOX CHASE CANCER CENTER) 23 January 1997		1,2, 4-10,15, 18, 21-24, 27-29, 31,32, 37,40, 42-45, 47-50,
		see the whole document, particularly the claims and seq. 1 and 2. Also against		56, 58-60, 65,67
		claims 70-72,74,76-80,82-85,88,89,99-104,108-111, 116,117. see page 18, line 20 - page 22, line 33		
		-/		
6	:			

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

X			Ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
virus-induced autoimmune responses."   21,22,   20,000		Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
see the whole document -& DATABASE EMBL - EMHUM1 Entry HSIGGAUA, Acc.no. L38696, 17 February 1995 VAUGHAN, J.H. ET AL.: "Homo sapiens autoantigen p542 mRNA, complete cds." XP002103198 see the whole document  X MASHIMO, J. ET AL.: "Decrease in the expression of a novel TGF beta1-inducible and ras-recision gene, TSC-36, in human cancer cells." CANCER LETTERS, vol. 113, March 1997, pages 213-9, XP002104545 see abstract  X MACHIELS, B.M. ET AL.: "Nuclear lamin expression in normal testis and testicular germ cell tumours of adolescents and adults." JOURNAL OF PATHOLOGY, vol. 182, no. 2, June 1997, pages 197-204, XP002104546 see abstract see page 198, left-hand column, paragraph 2  X COATES, P.J. ET AL.: "Identification of the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract		X	virus-induced autoimmune responses." JOURNAL OF CLINICAL INVESTIGANTION, vol. 95, no. 3, March 1995, pages 1306-15,	21,22, 24, 27-29, 31,35, 40,44, 45, 47-50, 54,59, 60,63, 67-72,
X MASHIMO, J. ET AL.: "Decrease in the expression of a novel TGF betal-inducible and ras-recision gene, TSC-36, in human cancer cells."  CANCER LETTERS, vol. 113, March 1997, pages 213-9, XP002104545 see abstract  X MACHIELS, B.M. ET AL.: "Nuclear lamin expression in normal testis and testicular germ cell tumours of adolescents and adults."  JOURNAL OF PATHOLOGY, vol. 182, no. 2, June 1997, pages 197-204, XP002104546 see abstract see page 198, left-hand column, paragraph 2  X COATES, P.J. ET AL.: "Identification of the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract		·	-& DATABASE EMBL - EMHUM1 Entry HSIGGAUA, Acc.no. L38696, 17 February 1995 VAUGHAN, J.H. ET AL.: "Homo sapiens autoantigen p542 mRNA, complete cds."	
expression of a novel TGF betal-inducible and ras-recision gene, TSC-36, in human cancer cells." CANCER LETTERS, vol. 113, March 1997, pages 213-9, XP002104545 see abstract  X MACHIELS, B.M. ET AL.: "Nuclear lamin expression in normal testis and testicular germ cell tumours of adolescents and adults." JOURNAL OF PATHOLOGY, vol. 182, no. 2, June 1997, pages 197-204, XP002104546 see abstract see page 198, left-hand column, paragraph 2  X COATES, P.J. ET AL.: "Identification of the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract				
XP002104545 see abstract  X MACHIELS, B.M. ET AL.: "Nuclear lamin expression in normal testis and testicular germ cell tumours of adolescents and adults." JOURNAL OF PATHOLOGY, vol. 182, no. 2, June 1997, pages 197-204, XP002104546 see abstract see page 198, left-hand column, paragraph 2  X COATES, P.J. ET AL.: "Identification of the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract		X	expression of a novel TGF beta1-inducible and ras-recision gene, TSC-36, in human cancer cells."  CANCER LETTERS,	
expression in normal testis and testicular germ cell tumours of adolescents and adults." JOURNAL OF PATHOLOGY, vol. 182, no. 2, June 1997, pages 197-204, XP002104546 see abstract see page 198, left-hand column, paragraph 2  X  COATES, P.J. ET AL.: "Identification of the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract  4-10,15, 31,32, 4-10,15, 31,32, 37,40, 4-10,15, 31,32, 37,40, 4-10,15, 31,32, 37,40, 4-10,15, 31,32, 37,40, 42,116, 117		÷	XP002104545	The second of th
the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract		X	expression in normal testis and testicular germ cell tumours of adolescents and adults." JOURNAL OF PATHOLOGY, vol. 182, no. 2, June 1997, pages 197-204, XP002104546 see abstract see page 198, left-hand column, paragraph	4-10,15, 31,32, 37,40, 42,116,
		X	the antigen recognized by the monoclonal antibody BU31 as lamins A and C" JOURNAL OF PATHOLOGY, vol. 178, no. 1, January 1996, pages 21-9, XP002104547 see abstract	4-10,15, 31,32, 37,40, 42,116,
	•			
6	_			

			PC1, 25 98/146/9
	C.(Continua Category ^o	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
	Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	X	ZWIJSEN, A. ET AL.: "Characterization of a rat C6 glioma-secreted follistatin-related protein (FRP); cloning and sequencing of the human homologue."  EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 225, no. 3, November 1994, pages 937-46, XP002103181  see page 945, right-hand column, paragraph 2-4; figure 3	18,21, 22,24, 27,28, 44,45, 47-50, 54,59, 60,63, 67-72, 74-80,82
		*	
	X	MINEGISHI, M. ET AL.: "Structure and function of Cas-L, a 105 kD Crk-associated substructure-related protein that is involved in beta-1 integrin-mediated signaling in lymphocytes."  JOURNAL OF EXPERIMENTAL MEDICINE, vol. 184, no. 4, 1 October 1996, pages 1365-75, XP002103183	18, 21-23, 27-29, 31,32, 37,40, 44,45, 47-50,
		also against claims 116 and 117 see figure 4	58-60, 65, 67-72, 74-80, 82-84 also and see of inc
	X	JIN, Y-J. ET AL.: "The 25-kDa FK506-binding protein is localized in the nucleus and associated with casein kinase II and nucleolin." PROC.NAT'L.ACAD.SCI.USA, vol. 90, August 1993, pages 7769-73, XP002104548 see the whole document	31,32, JIN, Y-J 35,40, FK506-bi 116,117 michaelei (Glandei
	Χ .	WO 96 15149 A (UNIV WASHINGTON) 23 May 1996 see page 23, line 2 - line 3	31,32, 37,40
	X	WO 97 21729 A (SLOAN KETTERING INST CANCER) 19 June 1997	31,32, 37, 40-42, 116,117
		see page 3, line 24 - line 29 see page 6, line 27 - line 29; figure 3 see page 27, line 15 see page 28, line 27 - line 28	
		_/	
6			

Category	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category	Cation of document, was indication, where appropriate, or the relevant passages	
X	NOCE, T. ET AL.: "Expresson of a mouse zinc finger protein gene in both spermatocytes and oocytes during meiosis." DEVELOPMENTAL BIOLOGY, vol. 153, no. 2, October 1992, pages 356-67, XP002104549 see abstract; figures 1,5-7-& DATABASE EMBL - EMROD Entry MMZFP51, Acc.no. D10630, 8 November 1992 NOCE, T. ET AL.: "Mouse mRNA for zinc	31,32, 37,40, 42, 67-70, 116,117
X	finger protein, complete cds."  XP002104555 see the whole document  ONO M ET AL: "NUCLEOTIDE SEQUENCE OF HUMAN ENDOGENOUS RETROVIRUS GENOME RELATED TO THE MOUSE MAMMARY TUMOR VIRUS GENOME" JOURNAL OF VIROLOGY,	44,45, 47,48, 59,60, 67-72,74
	vol. 60, no. 2, 1 November 1986, pages 589-598, XP000673638 see page 597, left-hand column, paragraph 5 - right-hand column, paragraph 1; figure 1	
	FUJIWARA, T. ET AL.: "Human fetal brain cDNA-5"-end GEN-421G02." XP002103191	60,63, 551, y 67-70- 10 Ser 11)180
X	DATABASE EMBL - EMEST13 Entry HS570350, Acc.no. W45570, 27 May 1996 HILLIER, L. ET AL.: "zc26f08.s1 Soares senescent fibroblasts NbHSF Homo sapiens cDNA clone 323463 3'" XP002103192 see the whole document	44,59, 60,63, 67-70
X	DATABASE EMBL - EMEST15 Entry HSA07407, Acc.no. AA007407, 28 July 1996 HILLIER, L. ET AL.: "zh97b08.r1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone 429207 5'" XP002103193 see the whole document	44,59, 60,63, 67-70
	-/	
6		

<b></b>	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HUNG, D.T. ET AL.: "cDNA cloning of a human 25 kDa FK506 and rapamycin binding protein." BIOCHEMICAL AND BIOPHYSICAL RESEARCH	44,59, 60,63, 67-70
	COMMUNICATIONS, vol. 184, no. 2, 30 April 1992, pages 733-8, XP002103178 see figure 2	
Х	JIN, Y-J. ET AL.: "Molecular cloning of a 25-kDa high affinity rapamycin binding	44, 47-50,
	protein, FKBP25." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 267, no. 16, 5 June 1992, pages 10942-5, XP002104550 see figure 3	54,59, 60,63, 67-72, 75,83,84
X	MACLEOD, A.R. ET AL.: "A muscle-type tropomycin in human fibroblasts: evidence for expression by an alternative RNA	44,59, 60,63, 67-70
	splicing mechanism." PROC.NAT'L.ACAD.SCI.USA, vol. 82, December 1985, pages 7835-9, XP002103179 see figures 2,3	07-70
X	DATABASE EMBL - EMEST20 Entry/Acc.no. T09468, 8 August 1993 ADAMS, M.D. ET AL.: "EST07361 Homo sapiens cDNA clone HIBBU63 5' end." XP002103195 see the whole document -& ADAMS, M.D. ET AL.: "Rapid DNA sequencing (expressed sequence tags) from a directionally cloned human infant brain	44,45, 67,70
	cDNA library." NATURE GENETICS, vol. 4, 1993, pages 373-380, XP000574910 see the whole document	
X	DATABASE EMBL - EMEST17 Entry HSZZ32361, Acc.no. AA327309, 18 April 1997 ADAMS, M.D. ET AL.: "EST30621 Colon I Homo sapiens cDNA 5' end." XP002103199	44,45, 60,62, 67,70
	see the whole document -& ADAMS, M.D. ET AL.: "Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence." NATURE,	
	vol. 377, 1995, pages 3-17, XP002042918 see the whole document	

PCT,	98	/14	46	79
------	----	-----	----	----

XP002103200  see the whole document  DATABASE EMBL - EMEST15  Entry HSAA21174, Acc.no. AA121174,  21 November 1996  21 November 1996	
Entry HSAA33416, Acc.no. AA133416, 6 December 1996 HILLIER, L. ET AL.: "zk96e08.rl Soares pregnant uterus NbHPU Homo sapiens cDNA clone 490694 5'." XP002103196 see the whole document  X DATABASE EMBL - EMEST11 Entry HS1282878, Acc.no. AA487071, 67,70  28 June 1997 HILLIER, L. ET AL.: "ab18f11.sl Stratagene lung (#937210) Homo sapiens cDNA clone 841197 3' similar to contains Alu repetitive element." XP002103197 See the whole document  X DATABASE EMBL - EMEST15 Entry HSAA21198, entry AA121198, 60,62, 21 November 1996 HILLIER, L. ET AL.: "z188g08.rl Stratagene colon (#937204) Homo sapiens cDNA clone 511742 5' " XP002103200 See the whole document  X DATABASE EMBL - EMEST15 Entry HSAA21174; Acc.no. AA121174, 60,62, 63 Entry HSAA2174; Acc.no. AA121174, 60,62, 63 Entry HSAA2174; Acc.no. AA121174, 60,62, 63 Entry HSAA2174; Acc.no. AA121174, 60,62, 63 Entry HSAA21740) Homo sapiens cDNA clone 511742 3' " XP002103200 see the whole document  24,45, 00,62, 63 Entry HSAA2174; Acc.no. AA121174, 60,62, 63 Entry HSAA21740 Homo sapiens cDNA clone 511742 3' " XP002103202 see the whole document	
HILLIER, L. ET AL.: "zk96e08.r1 Soares pregnant uterus NSHPU Homo sapiens cDNA clone 496694 5'." XP002103196 see the whole document  X DATABASE EMBL - EMEST11 Entry HS1282878, Acc.no. AA487071, 67,70  28 June 1997 HILLIER, L. ET AL.: "ab18f11.s1 Stratagene lung (#937210) Homo sapiens cDNA clone 841197 3' similar to contains Alu repetitive element." XP002103197 see the whole document  X DATABASE EMBL - EMEST15 Entry HSAA21198, entry AA121198, 60,62, 21 November 1996 HILLIER, L. ET AL.: "z188g08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone 511742 5'." XP002103200 see the whole document  X DATABASE EMBL - EMEST15 Entry HSAA21174; Acc.no. AA121174, 60,62, 67,70 HILLIER, L. ET AL.: "z188g08.s1 Stratagene colon (#937204) Homo sapiens cDNA clone 511742 3'." XP002103202 see the whole document	
X	
HILLIER, L. ET AL.: "abl8f11.s1 Stratagene lung (#937210) Homo sapiens cDNA clone 841197 3' similar to contains Alu repetitive element."  XP002103197  see the whole document  DATABASE EMBL - EMEST15 Entry HSAA21198, entry AA121198, 60,62, 21 November 1996 HILLIER, L. ET AL.: "z188g08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone 511742 5'."  XP002103200 see the whole document  DATABASE EMBL - EMEST15 Entry HSAA21174, Acc.no. AA121174, 60,62, 21 November 1996 HILLIER, L. ET AL.: "z188g08.s1 Stratagene colon (#937204) Homo sapiens cDNA clone 511742 3'." XP002103202 see the whole document	
Entry HSAA21198, entry AA121198, 21 November 1996 HILLIER, L. ET AL.: "zl88g08.rl Stratagene colon (#937204) Homo sapiens cDNA clone 511742 5'." XP002103200 see the whole document  DATABASE EMBL - EMEST15 Entry HSAA21174, Acc.no. AA121174, 21 November 1996 HILLIER, L. ET AL.: "zl88g08.sl Stratagene colon (#937204) Homo sapiens cDNA clone 511742 3'." XP002103202 see the whole document	
colon (#937204) Homo sapiens cDNA clone 511742 5'." XP002103200 see the whole document  DATABASE EMBL - EMEST15 Entry HSAA21174, Acc.no. AA121174, 21 November 1996 HILLIER, L. ET AL.: "zl88g08.sl Stratagene colon (#937204) Homo sapiens cDNA clone 511742 3'." XP002103202 see the whole document	
DATABASE EMBL - EMEST15 Entry HSAA21174, Acc.no. AA121174, 21 November 1996 HILLIER, L. ET AL.: "zl88g08.s1 Stratagene colon (#937204) Homo sapiens cDNA clone 511742 3'." XP002103202 see the whole document	(11/10) (P8021) See (th
	ABATAC
1 X   DATABASE EMBL - EMESTLY   1 44 45	
Entry HSW22160, Acc.no. W22160, 9 May 1996  NATHANS, J.: "63A6 Human retina cDNA Tsp509I-cleaved sublibrary Homo sapiens cDNA not directional."  XP002103201 see the whole document	
X DATABASE EMBL - EMEST15 Entry HSA29201, Acc.no. AA029201, 20 August 1996 HILLIER, L. ET AL.: "zk12f08.s1 Soares pregnant uterus NbHPU Homo sapiens cDNA clone 470343 3'." XP002103203 see the whole document	
-/	

C.(Con	nuation) DOCUMENTS CONSIDERED TO BE RELEVANT	1 7017 3 30	, , , , , , , , , , , , , , , , , , , ,	
Catego		<del> </del>	Relevant to claim No.	
Х	DATABASE EMBL - EMEST17 Entry HSW29097, Acc.no. W29097, 14 May 1996 NATHANS, J.: "56d11 Human retina cDNA		44,45, 60,62, 67,70	
	randomly primed sublibrary Homo sapiens cDNA." XP002103204 see the whole document			
Х	MIKI Y ET AL: "A STRONG CANDIDATE FOR THE BREAST AND OVARIAN CANCER SUSCEPTIBILITY		44,45, 60,62,	
	GENE BRCA1" SCIENCE, vol. 266, no. 12, 7 October 1994, pages 66-71, XP000202410 see the whole document -& DATABASE EMBL - EMEST5 Entry/Acc.no. AF039241, 17 January 1998 MIKI, Y. ET AL.: "Homo sapiens clone -11-67js mRNA,partial sequence." XP002103205 see the whole document		67,70	
X	DATABASE EMBL - EMEST18 Entry MM1140465, Acc.no. AA221749, 15 February 1997 MARRA, M. ET AL.: "my28g01.r1 Barstead mouse pooled organs MPLRB4 Mus musculus cDNA clone 697200 5' similar to TR:E239664 E239664 CHROMOSOME XIV READING FRAME ORF YNL021W." XP002103206 see the whole document	を対象の表示的 の機能の表示的 になっている。 の機能を発表し 機能を発表し を表示を を表示を を を を を を を を を を を を を を を を	44,45, 60,62, 67,70 14 507 00150 00150 00150 00150 00150	necon necon lene necon necon necon
X	NAGASE T ET AL: "PREDICTION OF THE CODING SEQUENCES OF UNIDENTIFIED HUMAN GENES VI.THE CODING SEQUENCES OF 80 NEW GENES (KIAA0201-KIAA0280) DEDUCED BYANALYSIS OF CDNA CLONES FROM CELL LINE KG-1 AND BRAIN" DNA RESEARCH, vol. 3, no. 5, 1 January 1996, pages 321-329, XP002059454 see the whole document -& DATABASE EMBL - EMHUM1 Entry HSD455, Acc.no. D87455, 9 November 1996 NOMURA, N.: "Human mRNA for KIAA0266 gene, complete cds." XP002103207 see the whole document		44,45, 60,62, 67,70	
6				

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(	DATABASE EMBL - EMEST16	44,45,
	Entry HSAA51187, Acc.no. AA151187,	60,62,
	15 December 1996	67,70
	HILLIER, L. ET AL.: "zo03c11.r1 Stratagene	
	colon (#937204) Homo sapiens cDNA clone	
	566612`5'."	l'
	XP002103208	
	see the whole document	
x	DATABASE EMBL - EMHUM2	44,45,
`	Entry HSU50839, Acc.no. U50839,	60,64,
	9-March 1997	67,70
	LATIF, F. ET AL.: "Homo sapiens g16	0,,,0
	protein (g16) mRNA, complete cds."	
	XP002103209	
	see the whole document	
	See the more accument	
X	LI, H. ET AL.: "Isolation and sequence	44,45,
``	analysis of the human syntaxin-encoding	47,48,
	gene.".	59,60,
	GENE,	65,
		70-72,
	vol. 143, 1994, pages 303-4, XP002103182	74,83,84
	see the whole document	74,05,04
	בכ נווכ אווטופ מטכמוופוונ	
J.	DATADACE EMDI EMECTII	44.45
X	DATABASE EMBL - EMEST11	44,45,
	Entry HS1188646, Acc.no. AA285170,	59,60,
	5 April 1997 STRAUSBERG, R.: "zs48f04.s1 NCI_CGAP_GCB1	67-70
	STRAUSBERG, R. ZS40TU4.SI NUL CUAP GUBI	
	Homo sapiens cDNA clone IMAGE:700735 3	
	XP002103210	
	see the whole document	
v	FIGUED D 7 FT AL - H-DNA	44 45
Χ .	FISHER, D.Z. ET AL.: "cDNA sequencing of	44,45,
	nuclear lamins A and C reveals primary and	59,60,
	secondary structural homolgy to	67-70
	intermediate filament proteins."	
	PROC.NAT'L.ACAD.SCI.USA,	
	vol. 83, September 1986, pages 6450-4,	
	XP002103184	
	see figure 2	
V	DATABACE ENDI ENECTIC	67.60
Χ	DATABASE EMBL - EMEST16	67,69
	Entry HSAA54222, Acc.no. AA454222,	
	11 June 1997	
	HILLIER, L. ET AL.: "zx48g12.s1 Soares	
	testis NHT Homo sapiens cDNA clone 795526	
	3' similar to gb:D42040 RING3 PROTEIN	
	(HUMAN)"	
	XP002103189	
	see the whole document	
	,	
	-/	
	1	

	Nuation) DOCUMENTS CONSIDERED TO BE RELEVANT	104
Category	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
Х	DATABASE EMBL - EMEST11 EntryHS125289, Acc.no. AA454221, 11 June 1997	67,69
	HILLIER, L. ET AL.: "zx48g12.r1 Soares testis NHT Homo sapiens cDNA clone 795526-5' similar to TR:E243068 E243068 KINASE." XP002103190	
	see the whole document	
X	DATABASE EMBL - EMEST20 Entry MMAA84412, Acc.no. AA184412, 19 February 1997	- 67-70
	MARRA, M. ET AL.: "mt34f07.rl Soares mouse 3NbMS Mus musculus cDNA clone 622981 5' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN." XP002103194	
	see the whole document	
A .	WO 96 29409 A (LUDWIG INST CANCER RES;UNIV LEIDEN (NL)) 26 September 1996	1-11, 17-33, 39-52, 58-61, 67-117
	~ see the whole document	
A	WO 92 20356 A (LUDWIG INST CANCER RES) 26 November 1992	+1-11; 140 9 17-33, 26 Wr
Si S		39-52, 58-61, 67-117
N. C.	see the whole document, particularly the claims	3 % (1981) Sea (1981)
<b>A</b> .	WO 95 23874 A (LUDWIG INST CANCER RES) 8 September 1995 see page 5, line 10-14; claims 3,4,7; examples 33,36,43,44	1-4
A	FRANZÉN, B. ET AL.: "Analysis of polypeptide expression in benign and malignant human breast lesions: down-regulation of cytokeratins." BRITISH JOURNAL OF CANCER, vol. 73, 1996, pages 1632-8, XP002104551	1,2,4-9, 13
	see abstract	
A	WO 96 10413 A (LUDWIG INST CANCER RES) 11 April 1996	3,19,20, 26,39
\.	see the whole document, particularly the claims see abstract	-
	-/	
	ļ. 1	
5		

Category '   Ci	tation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	BOON T ET AL: "Tumor antigens recognized	
	by T cells"	
	IMMUNOLOGY TODAY, vol. 18, no. 6, June 1997, page 267-268	
	XP004068293	
	see the whole document	
A	SAHIN, U. ET AL.: "Human neoplasms elicit	
	multiple specific immune responses in the	
	autologous host."	
	PROC.NATL.ACAD.SCI.USA,	
	vol. 92, December 1995, pages 11810-3, XP002091914	
	cited in the application	
	see the whole document	
		1.0
P,X	DATABASE EMBL - EMHUMI	1,2
	Entry/Acc.no. AC004022, 22 January 1998 HINDS, K. ET AL.: "Homo sapiens BAC clone	
	GS155M11-from 7q21-q22, complete	
	sequence."	
	XP002091837	
	from nt.330-810	
n v.	ALAIVA A A ET AL . "Dhanatunic analycic	1_10*15 6 0
Ρ,Χ	ALAIYA, A.A. ET AL.: "Phenotypic analysis	1-10,15 A A
	of ovarian carcinoma: polypeptide expression in benign, boderline and	L. C. L. Syrir
1.	malignant tumors."	Commercial of All Maria
. 7 - 1	- JOURNAL OF CNACER,	一个 人名英格里
	vol. 73, no. 5, 27 November 1997, pages	701 575
	678-83, XP002104552 see abstract; figure 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	- See abstract, right t	
P,X	GÜRE, A.O. ET AL.: "Human lung cancer	1,2,4,5,
	antigens recognized by autologous	9,14,18,
-	antibodies: definition of a novel cDNA	21,22,
	derived from the tumor suppressor gene locus on chromosome 3p21.3"	27,44, 45,49,
	CANCER RESEARCH,	50,55,
.	vol. 58, 1 March 1998, pages 1034-41,	59,60,
	XP002103188	64,
		67-70,
	see the whole document	83,84
	in the first	
P,X	SCANLAN, M.J. ET AL.: "Characterization	31,32,
	of human colon cancer antigens recognized	34,40,
	by autologous antibodies" INTERNATIONAL JOURNAL OF CANCER,	59,60, 62,
ļ	29 May 1998, pages 652-8, XP002103186	67-70,
	me tial mesas thad a same at the same and	83,84,
.		116
	see the whole document	
	-/	
	·	
1 1		1

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	NAGASE, T. ET AL.: "Prediction of the coding sequence of unidentified human genes. IX. The complete sequence of 100 new cDNA clones from barin which can code	44,45, 67-70, 83,84
	for large proteins in vivo."  DNA RESEARCH,  vol. 5, 28 February 1998, pages 31-39,  XP002103187  see figure 1; table 3  -& DATABASE EMBL  Entry/acc.no. AB011172, 10 April 1998  NAGASE, T. ET AL.: "Homo sapiens mRNA for  KIAA0600 protein, partial cds."	
	XP002104556 see the whole document	
P,X	JONES, M.H. ET AL.: "Identification and characterization of BRDT: a testis-specific gene related to the bromodomain genes RING3 and Drosophila fsh."  GENOMICS, vol. 45, no. 3, 1 November 1997, pages 529-34, XP002103185 see page 529, right-hand column, paragraph 2	44,45, 59,60, 67-70, 83,84
	see page 530, left-hand column, paragraph 2; figure 1 see page 532, right-hand column, paragraph 2	
P,X	ISHIKAWA K ET AL: "Prediction of the coding sequences of unidentified human genes. X The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro" DNA RESEARCH, vol. 5, no. 321, 30 June 1998, pages 169-176, XP002089186 see abstract; figures 1,2; table 2	44,59, 60,63, 67-70
Ε	US 5 858 723 A (MUELLER-LANTZSCH NIKOLAUS ET AL) 12 January 1999	1,2, 4-10,31, 32,40, 42,43, 49,50, 58-60, 67,69, 71,72, 74-79, 82-84, 99-104
	Also against claims 108,109,116,117 see the whole document	
	-/	

C.(Continual	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
E	WO 98 40483 A (HUMAN GENOME SCIENCES INC ;GREENE JOHN M (US); LI YI (US); ROSEN C) 17 September 1998	1,2, 4-10,14, 18, -21-24,
		27,28, 31,32, 36,40, 44,45, 47-50, 55, 58-60,
	Also against claims 74,76-80,82-85,88,89, 99-104,108,109,111,116,117. See seq. 24 and the claims.	64,67-72
E	WO 98 08866 A (WISTAR INST) 5 March 1998 see the whole document	1,2
E	WO 98 48015 A (CHUGAI RES INST MOLECULAR MED ;JONES MICHAEL H CHUGAI RESEARC (JP)) 29 October 1998	18,22, 23, 27-29, 31,32,
	SCALAR COLLEGE	40, 44-50, 58-60, 67-72, 74, 76-78, 85,88,
	see whole document, particularly the claims. & DATABASE WPI Derwent Publications Ltd., London, GB; AN 98-583658 XP002103211 see abstract	89,102,
E	WO 98 32853 A (GENETICS INST) 30 July 1998	18,21, 22,24, 27-29, 44,45, 47-50, 53,59, 60,62, 67-72, 74,
	see seq. 7 and 8 see page 6, line 23 - page 8, line 12; claims 20-22 see page 21, line 17 - page 22, line 11	76-80,82
	-/	

Intern: al Application No PCT/US 98/14679

ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
	SCANLAN, M.J. ET AL.: "Isoforms of the human PDZ-73 protein exhibit differential tissue expression"  BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1445, no. 1, 1999, pages 39-52, XP002104553 also for claims 77-80,82-84,116. see the whole document  DRABKIN, H.A. ET AL.: "DEF-3(g16/NY-LU-12), an RNA binding		
	protein from the 3p21.3 homozygous  deletion region in SCLC"		
	ONCOGENE, vol. 18, 1999, pages 2589-97, XP002104554 see the whole document		
-		· .	
	のでは、 The Maria Carlos (Artista Carlos (Artista Carlos (Artista Carlos (Artista Carlos (Artista Carlos (Artista Carl Tark (Artista Carlos (Artista Carlos (Artista Carlos (Artista Carlos (Artista Carlos (Artista Carlos (Artista	#	
	·		
	1	i e	

International application No. PCT/US 98/14679

## INTERNATIONAL SEARCH REPORT

Box I Observations wh	ere certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Rep	port has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.:	to subject matter not required to be searched by this Authority, namely:
Although cla	aims 85-111 are directed to a method of treatment of the lody, the search has been carried out and based on the alleged the compound/composition.
2. Claims Nos.: because they relate an extent that no m	e to parts of the International Application that do not comply with the prescribed requirements to such eaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are d	dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations w	here unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching	Authority found multiple inventions in this international application, as follows:
	and the state of t
	see additional sheet
As all required adsearchable claims	ditional search fees were timely paid by the applicant, this International Search Report covers all
2. As all searchable of any additional	claims could be searched without effort justifying an additional fee, this Authority did not invite payment fee.
3. X As only some of covers only those	the required additional search fees were timely paid by the applicant, this International Search Report a claims for which fees were paid, specifically claims Nos.:
1-14,17-36	5,39-55,58-64,67-117; see additional sheets, pages 3-4.
4. No required add restricted to the	itional search fees were timely paid by the applicant. Consequently, this International Search Report is invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest	The additional search fees were accompanied by the applicant's protest.
	X No protest accompanied the payment of additional search fees.
1	

PCT/US 98/14679

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-11,17-33,39-52,58-61,67-117, all partially

The nucleic acid sequence of Seq.ID 1, fragments or complements thereof, and the corresponding polypeptide(s) encoded thereby, and immunogenic and/or HLA binding fragments thereof, optionally as part of a complex with a HLA molecule, an expression vector comprising said nucleic acid, and optionally a human HLA molecule, a host cell transformed with said vector, and an antibody against said polypeptide(s). Also a method of diagnosing of a disorder characterised by

Also a method of diagnosing of a disorder characterised by overexpression of said polypeptide(s) and a method for determining regression, progression or onset of a disease associated with overexpression of said polypeptide(s), using agents that specifically bind to said nucleic acid, said polypeptide(s) or complexes of (fragments of) said polypeptide(s) and a HLA molecule. A kit comprising two polynucleotides for the detection of said nucleic acid Also pharmaceutical preparations

- which enrich the presence of said polypeptide-HLA complex, optionally comprising an adjuvant, or

- which inhibits the expression of said polypeptide(s), or

 comprising an agant that selectively binds said polypeptide, optionally as a conjugate with a diagnostic or therapeutic compound, or

- comprising said nucleic acid, optionally in an expression vector, optionally in a host cell, or

- comprising said polypeptide(s), optionally in combination with an adjuvant, or

- comprising cytolytic T cells, specific for said polypeptide-HLA complex, or

comprising an antibody against said polypeptide(s).

Inventions 2-119: claims 1-11,13,15,17-33,35,37, 39-52,54,56,58-61,63,65,67-117, all partially (1)

Inventions 2-119: Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:2-40,66,89-169 (odd numbers), 170,172,174, and 176-210, where invention 2 is limited to Seq.ID:2 and corresponding polypeptides encoded thereby, invention 3 is limited to Seq.ID:3 and corresponding polypeptides encoded thereby,....., and invention 119 is limited to Seq.ID:210 and corresponding polypeptides encoded thereby.

Invention 120: claims claims 1-10,13,17-32,35, 39-51,54,58-60,63,67-117, all nartially

PCT/US 98/14679

Idem as subject 1 but limited to the DNA sequences seq.ID:211 and 329 and corresponding polypeptides encoded thereby.

Inventions 121-452: claims 1-10,13,16-32,35,38-51, 54,57-60,63,66-117, all partially (1)

Inventions 121-452: Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:212-328, and 330-543, where invention 121 is limited to Seq.ID:211 and corresponding polypeptides encoded thereby, invention 122 is limited to Seq.ID:212 and corresponding polypeptides encoded thereby,...., and invention 452 is limited to Seq.ID:543 and corresponding polypeptides encoded thereby.

Invention 453: claims 1-10,12,17-32,34,39-51,53, 58-60,62,67-117, all partially

Idem as subject 1 but limited to the DNA sequences seq.ID:544 and 554 and corresponding polypeptides encoded thereby.

Inventions 454 and 455: claims 1-10,12,17-32,34, 39-51,53,58-60,62,67-117, all partially

Inventions 454 and 455: Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:546 and 548, where invention 454 is limited to Seq.ID:546 and corresponding polypeptides encoded thereby, and invention 455 is limited to Seq.ID:548 and corresponding polypeptides encoded thereby.

Invention 456: claims 1-10,12,17-32,34,39-51,53,
58-60,62,67-117, all partially

Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:550, 552, 556, 558 and 560 and corresponding polypeptides encoded thereby.

Inventions 457-582: claims 1-10,12-14,17-32,34-36, 39-51,53-55,58-60,62-64,67-117, all partially (1)

Inventions 457-582: Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:562-586 (even numbers),

n: 1 gerin gan d 588-683,686,687,689,691,692,692, and 696-706, where invention 457 is limited to Seq.ID:562 and corresponding polypeptides encoded thereby, invention 458 is limited to Seq.ID:564 and corresponding polypeptides encoded thereby,...., and invention 582 is limited to Seq.ID:706 and corresponding polypeptides encoded thereby.

Invention 583: claims 1-10,14,17-32,36,39-51,55, 58-60,64,67-117, all partially

Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:707, 709, 711 and 712 and corresponding polypeptides encoded thereby.

Inventions 584-592: claims 1-117, all partially (1)

Inventions 584-592: Idem as subject 1 but limited to each of the DNA sequences as in Seq.ID:799-815 (odd numbers), where invention 584 is limited to Seq.ID:799 and corresponding polypeptides encoded thereby, invention 585 is limited to Seq.ID:801 and corresponding polypeptides encoded thereby, ....., and invention 592 %s limited to Seq.ID:815 and corresponding polypeptides encoded thereby).

For the sake of conciseness, the subject matter of the first invention is explicitly defined, the other subject matters are defined by analogy thereto.

(1) In as far as the claims searched for a group of inventions refer to specific groups of sequences, only those claims which refer to the groups comprising the nucleic acid sequence of a particular invention, and/or its corresponding polypeptide sequence(s), form parts of that invention.

Due to the fact that extensive sequence homologies were found between several groups of sequences during the additional searches, some of the sequences have been grouped, whereby each of these groups comprising two or more such homologous sequences is considered to be one invention.

Claims searched during primary and additional searches: 1-14,17-36,39-55,58-64,67-117, limited to: seq.ID.1 Invention 1,

Invention 52, seq.ID.111, and 112 (transl.) Invention 61, seq.ID.129, and 130 (transl.)

Invention 71, seq.ID.149, and 150 (transl.)

Invention 72, seq.ID.151, and 152 (transl.)

Invention 116, seq.ID.206

Invention 120, seq.ID.211 and 329; (related sequences)

Invention 137, seq.ID.228 Invention 139, seq.ID.330

PCT/US 98/14679

```
Invention 219, seq.ID.411
Invention 453, seq.ID.544, and 545 (transl.),
               and seq.ID.554, and 555 (trans1.);
             (related sequences)
Invention 454, seq.ID.546, and 547 (transl.) Invention 455, seq.ID.548, and 548 (transl.)
Invention 456, seq.ID.550, and 551 (transl.),
               and seq.ID.552, and 553 (trans1.),
               and seq.ID.556, and 557 (transl.),
and seq.ID.558, and 559 (transl.),
and seq.ID.560, and 561 (transl.);
               (related sequences)
Invention 547 seq.ID.665 Invention 548, seq.ID.666
Invention 554, seq.ID.672
Invention 558, seq.ID.676
Invention 563, seq.ID.681
Invention 566, seq.ID.686
Invention 583, seq.ID.707, and 708 (transl.),
               and seq.ID.709, and 710 (transl.),
               and seq.ID.711,
               and seq.ID.712;
               (related sequences).
```

Taliffa Salah Ca

PCT, _S 98/14679

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9717470 A	15-05-1997	US 568624 AU 127149 EP 086687	7 A	11-11-1997 29-05-1997 30-09-1998
GB · 2273099 A	08-06-1994	W0941151	4 A	26-05-1994 -
WO 9717441 A	15-05-1997	AU 750569 EP 086917		29-05-1997 07-10-1998
W0 9702362 A	23-01-1997	US 571678 AU 639319 CA 222237	6 A 1 A	10-02-1998 05-02-1997 23-01-1997
WO 9615149 A	23-05-1996	US 562305 AU 428239 CA 220613 EP 079103 JP 1050994	51 A 96 A 10 A	15-04-1998 
WO 9721729 A	19-06-1997	AU 133179	97 A	03-07-1997
WO 9629409 A	26-09-1996	AU 542989 CA 221144 EP 081522 ZA 960228	18 A 29 A	08-10-1996 26-09-1996 07-01-1998 28-08-1996
WO 9220356 A	26-11-1992	US 53427 AU 66450 AU 21583 CA 21097 EP 05958 FI 9351 JP 65111 NO 9341 PT 1005 US 55411 US 56122 US 58434	50 B 92 A 38 A 74 A 44 T 30 A 94 A 91 A	30-08-1994 23-11-1995 30-12-1992 26-11-1992 11-05-1994 22-11-1993 15-12-1994 23-11-1993 31-08-1993 30-07-1996 18-03-1997 01-12-1994
WO 9523874 A	08-09-1995	US 55124 US 57631 US 56122 US 55124 AU 6983 AU 19682 CA 21844 EP 08717 FI 9633 JP 95098 NO 9635 NZ 2825 US 57631	65 A A A B A A A A A A A A A A A A A A A	30-04-1996 09-06-1998 18-03-1997 30-04-1996 29-10-1998 18-09-1995 08-09-1995 21-10-1998 30-08-1996 07-10-1997 31-10-1996 28-07-1996 09-06-1998
WO 9610413 A	11-04-1996	AU 6903 AU 38864 CA 22013 CN 11597	27 A	23-04-1998 26-04-1996 11-04-1996 17-09-1997

## mation on patent family members

International Application No PCT, JS 98/14679

•					
Patent document cited in search report		Publication date	Patent fa membe		Publication date
 WO 9610413	A		JP 105	82453 A 11639 T 08229 A	09-07-1997 10-11-1998 24-04-1996
US 5858723	Α	12-01-1999	NONE		
WO 9840483	A	17-09-1998		52198 A 54963 A	29-09-1998 10-12-1998
 WO 9808866	Α	05-03-1998	AU 41	358005 A .71797 A .10036 A	12-01-1999 19-03-1998 04-03-1999
WO 9848015	Α	29-10-1998	AU 68	353998 A	13-11-1998
WO 9832853	Α	30-07-1998	AU 58	328398 A	18-08-1998